

APPENDIX 1

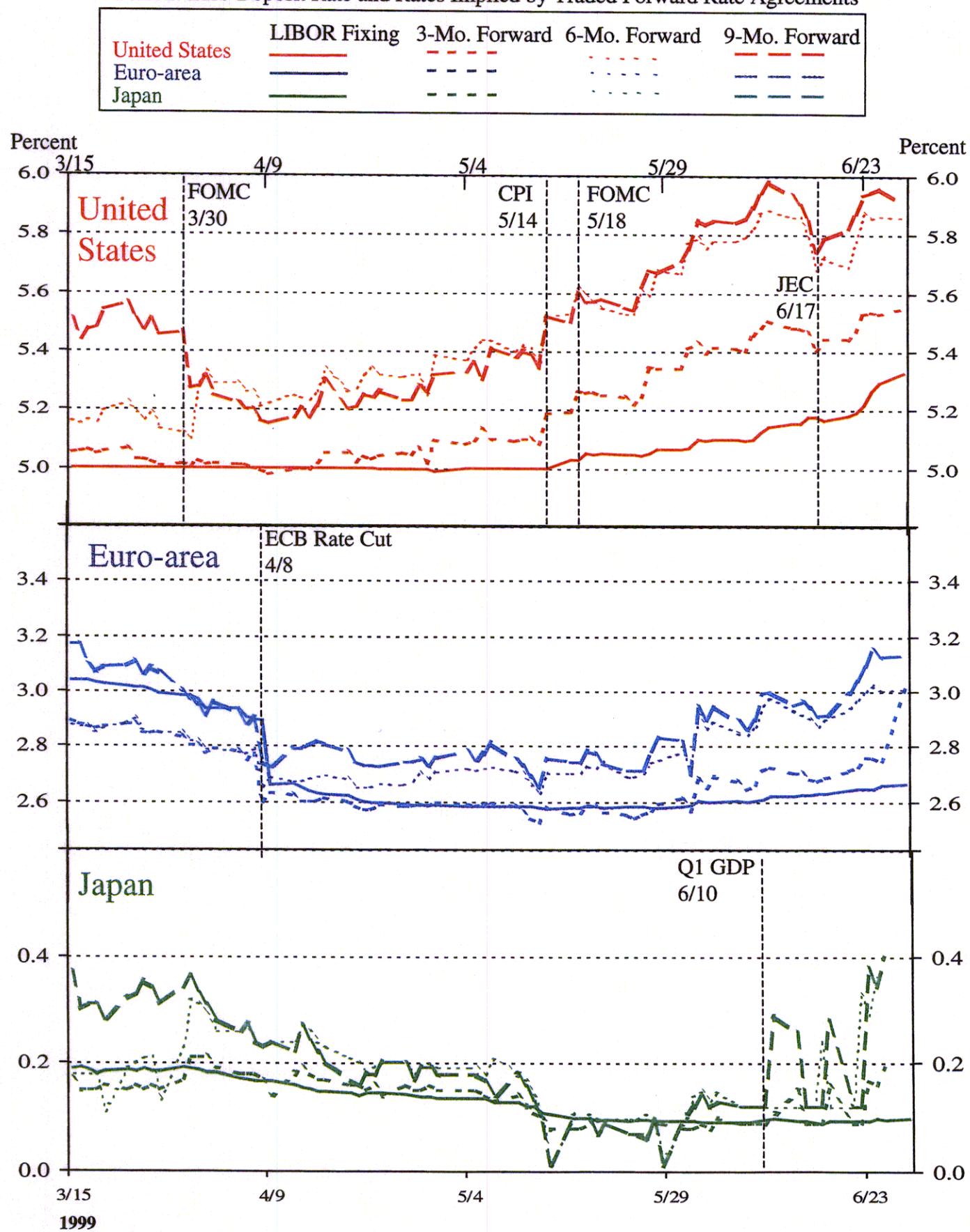
Material used by Mr. Fisher in his presentation

3-Month Deposit Rates

March 15, 1999 - June 28, 1999

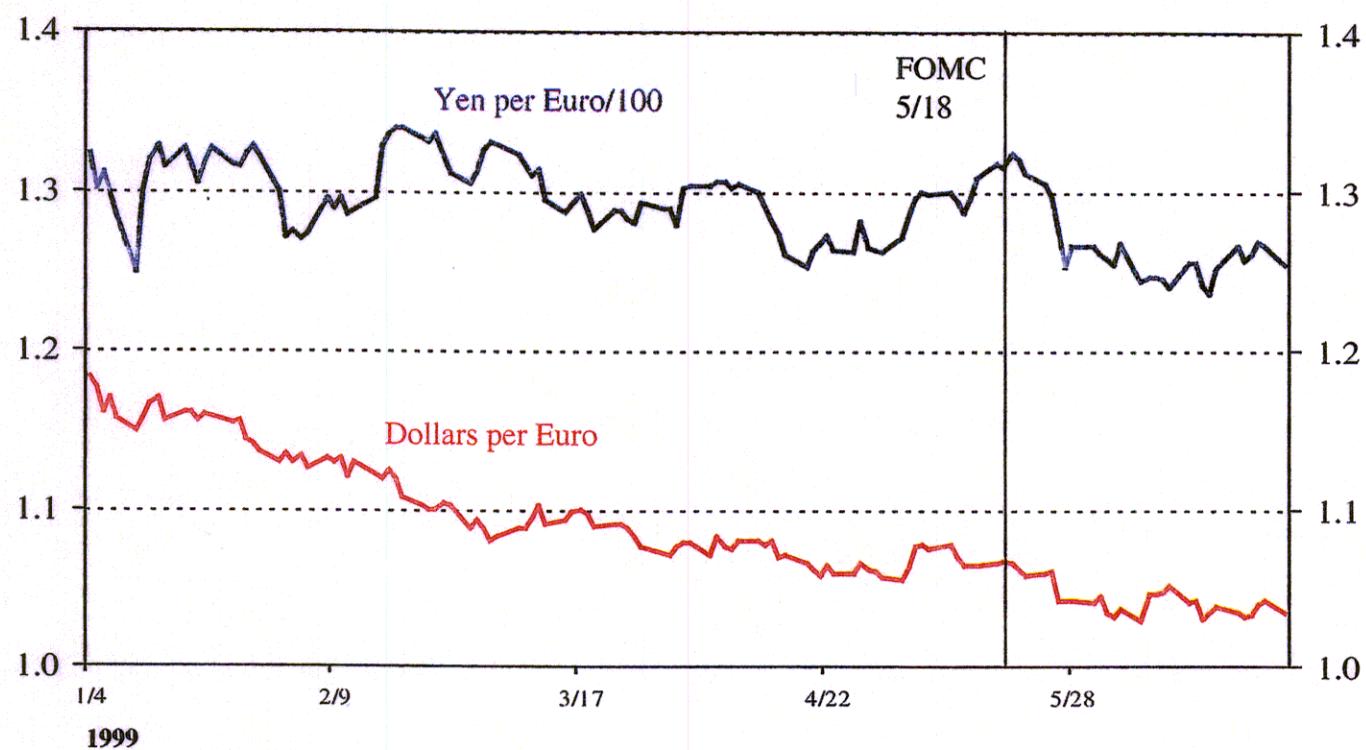
Page 1

Current Euro-Deposit Rate and Rates Implied by Traded Forward Rate Agreements



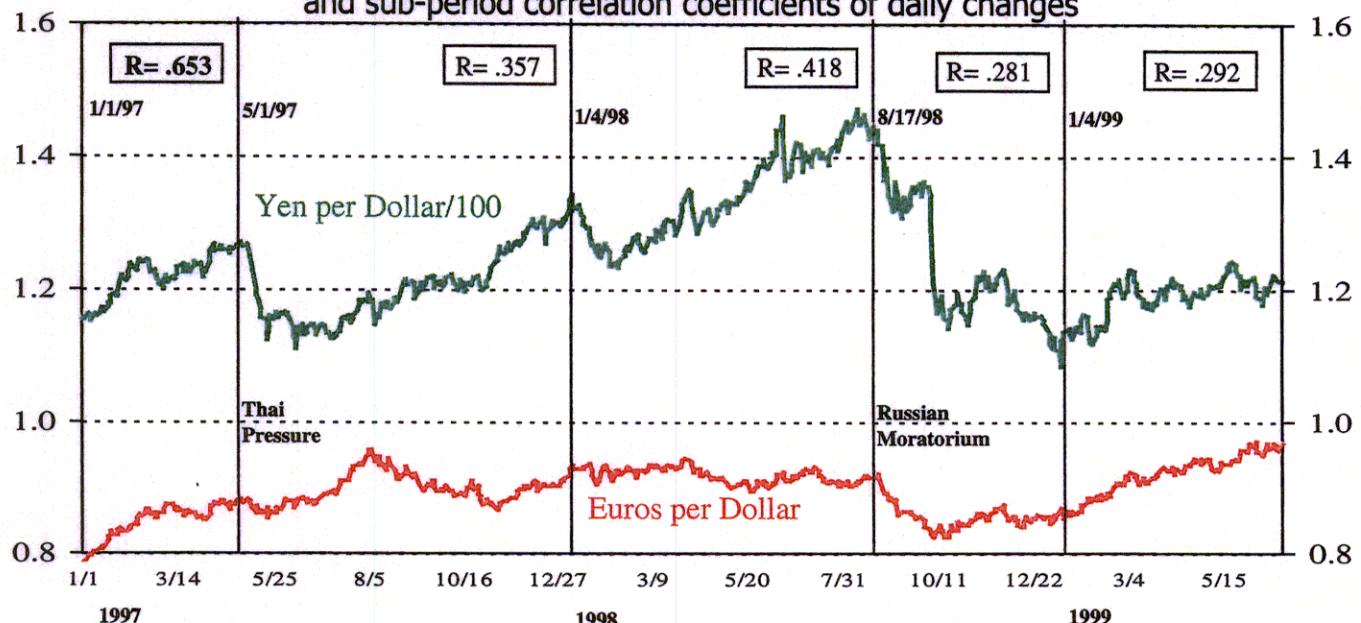
January 4 - June 28, 1999

The Launch of the Euro

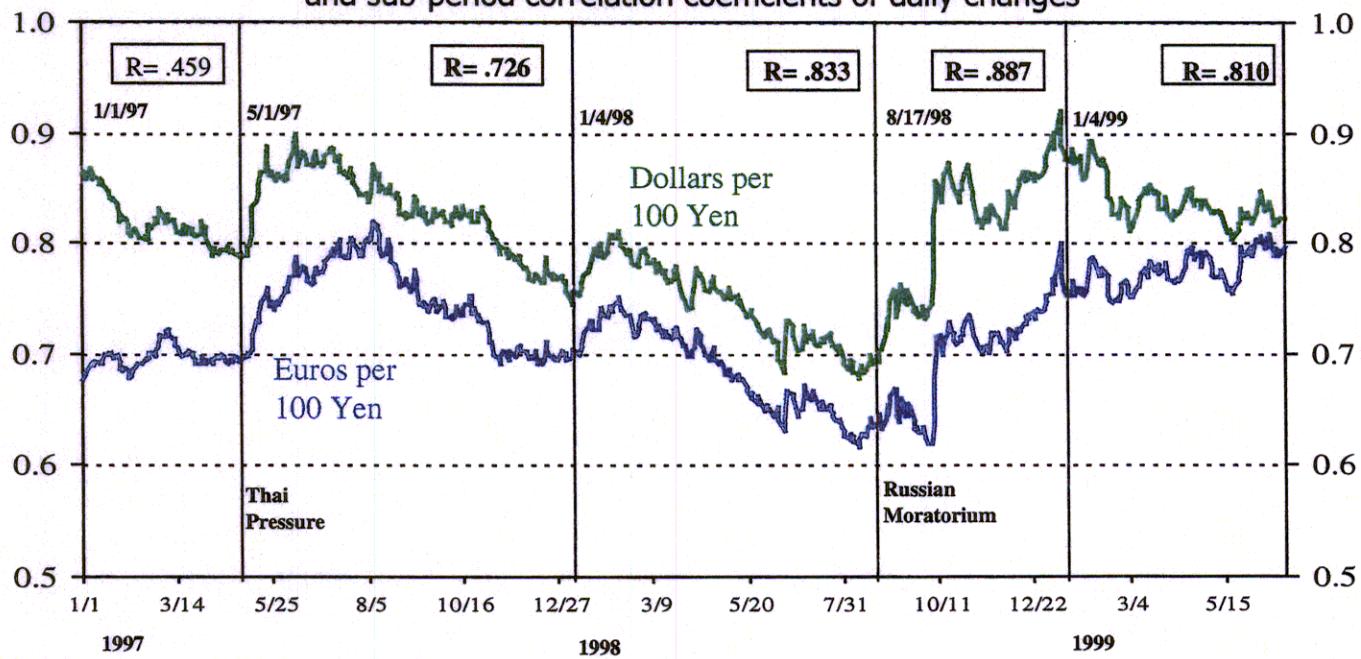


January 1, 1997 - June 28, 1999

**The Value of One Dollar in Euros and Yen
and sub-period correlation coefficients of daily changes**

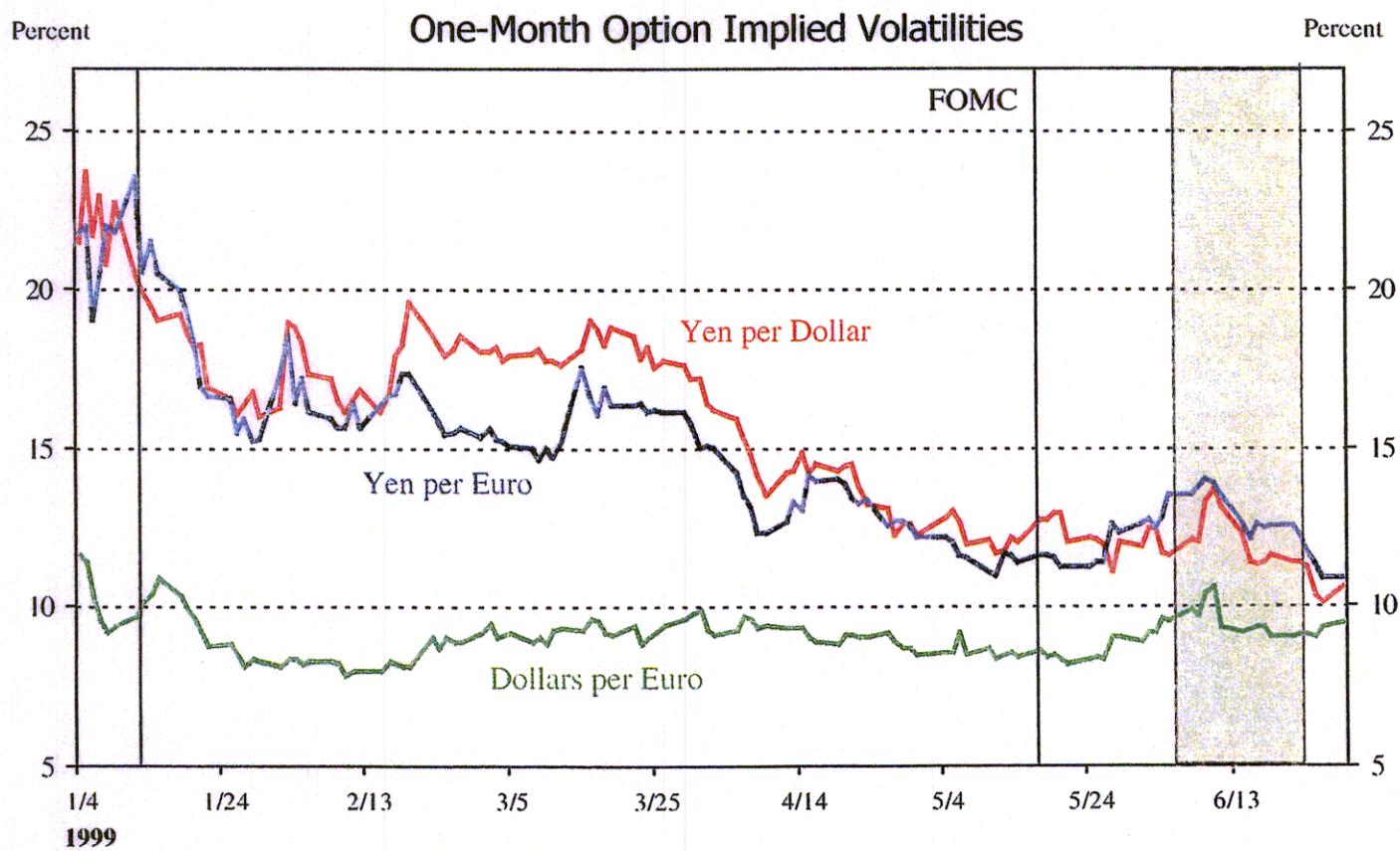
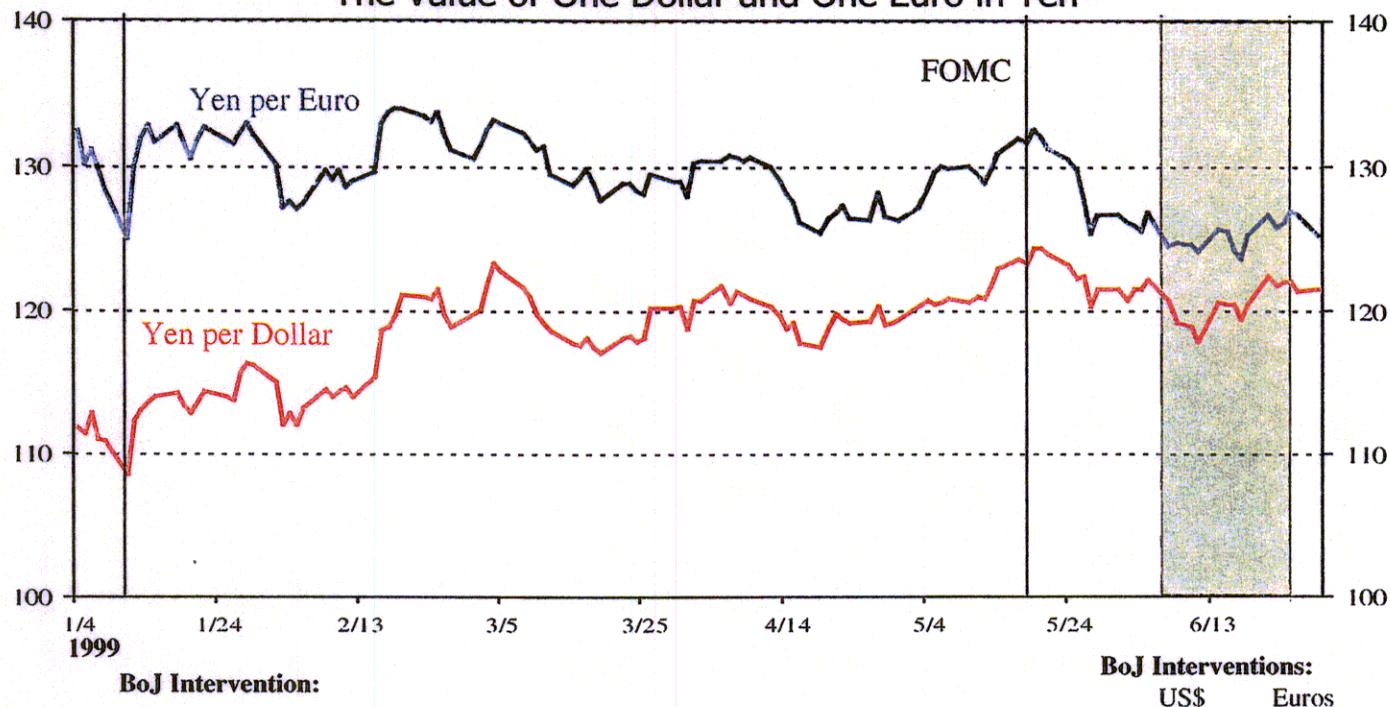


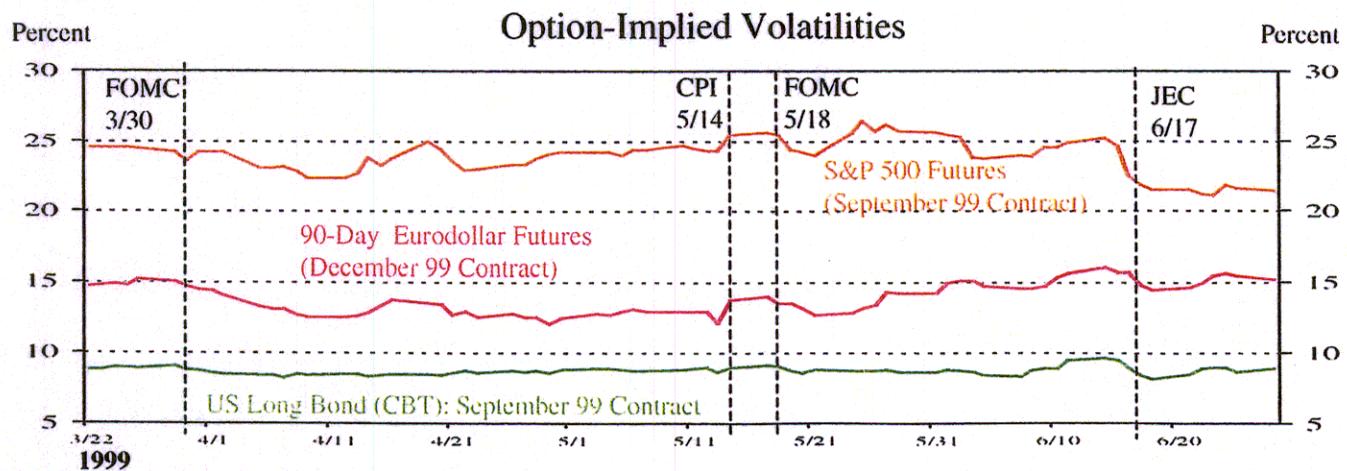
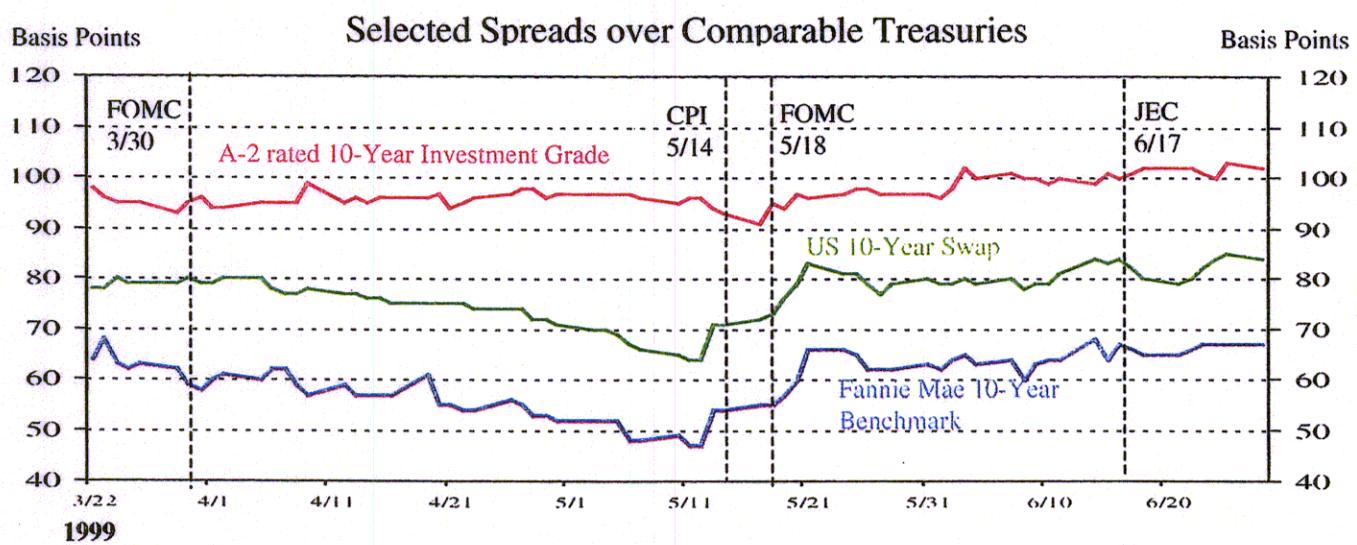
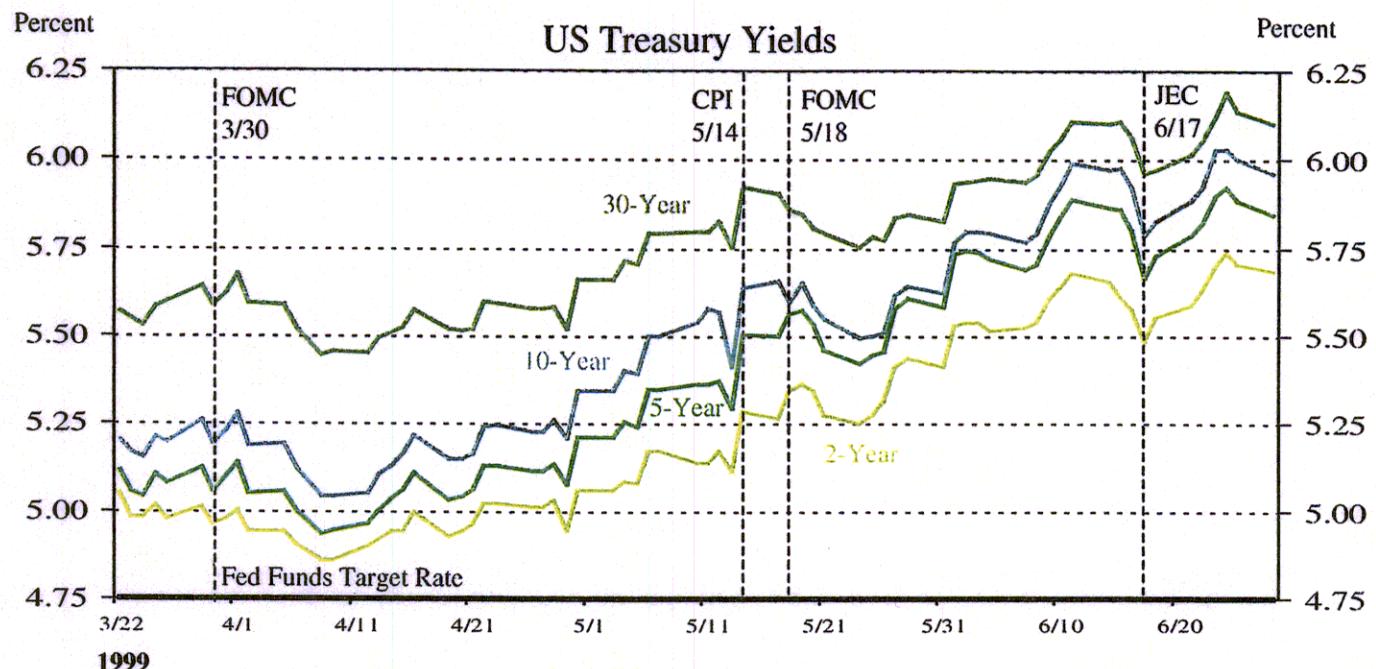
**The Value of One-Hundred Yen in Euros and Dollars
and sub-period correlation coefficients of daily changes**



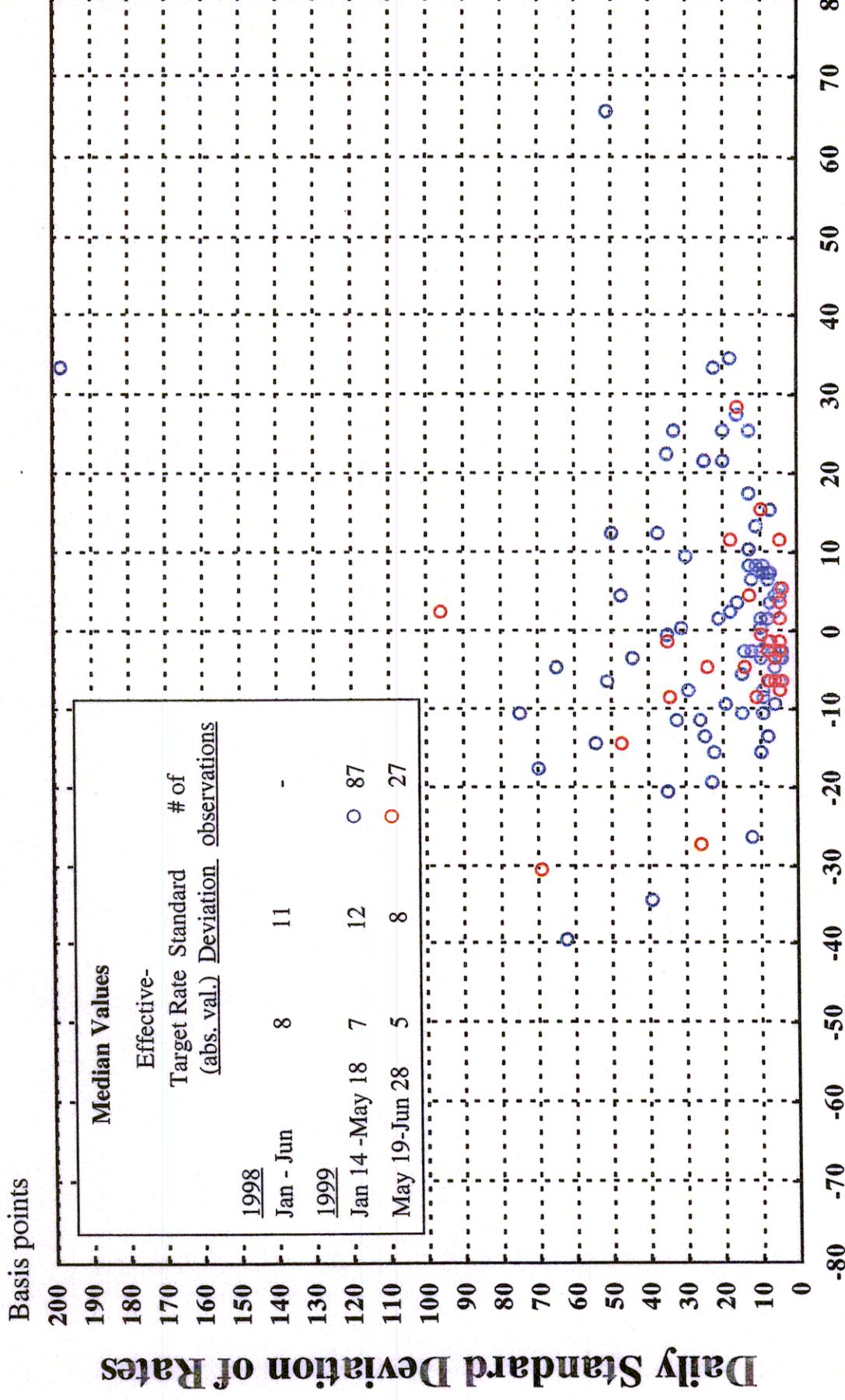
1. The sub-period correlation coefficients in the above graphs were calculated from the natural log of the daily percent changes of the exchange rate pairs in each graph.
2. The euro's synthetic history is derived from the weighted-average performance of the euro's component currencies and is based on a methodology developed by HSBC Markets. The weights of the component currencies reflect the share of a country's exports and imports as a percentage of total intra-Eurozone exports and imports from 1994 to 1996.

The Value of One Dollar and One Euro in Yen





Volatility of the Daily Federal Funds Rate



APPENDIX 2

Material used by Mr. Prell and Ms. Johnson in their presentation

Mr. Prell and Ms. Johnson presented the following material during their presentation.

The material is organized into the following sections:

• **Background Information** (including the following topics)

• **Proposed Project** (including the following topics)

• **Environmental Impact** (including the following topics)

• **Public Input** (including the following topics)

• **Conclusion** (including the following topics)

• **Q&A Session** (including the following topics)

• **Other Information** (including the following topics)

• **Appendix A** (including the following topics)

• **Appendix B** (including the following topics)

• **Appendix C** (including the following topics)

• **Appendix D** (including the following topics)

• **Appendix E** (including the following topics)

• **Appendix F** (including the following topics)

• **Appendix G** (including the following topics)

• **Appendix H** (including the following topics)

• **Appendix I** (including the following topics)

• **Appendix J** (including the following topics)

• **Appendix K** (including the following topics)

• **Appendix L** (including the following topics)

• **Appendix M** (including the following topics)

• **Appendix N** (including the following topics)

• **Appendix O** (including the following topics)

• **Appendix P** (including the following topics)

• **Appendix Q** (including the following topics)

• **Appendix R** (including the following topics)

• **Appendix S** (including the following topics)

• **Appendix T** (including the following topics)

• **Appendix U** (including the following topics)

Material for

***Staff Presentation on the
Economic Outlook***

June 29, 1999

Chart 1
Current Quarter Indicators

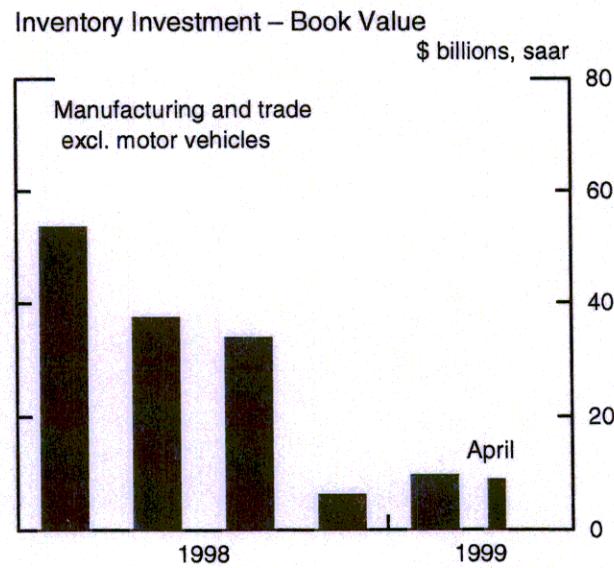
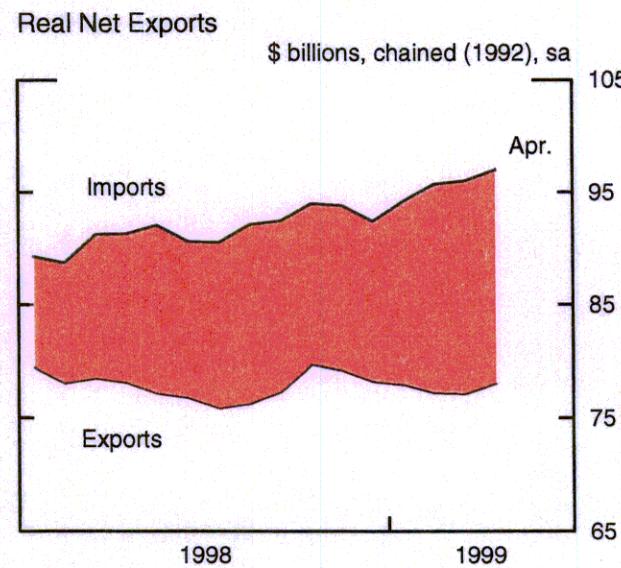
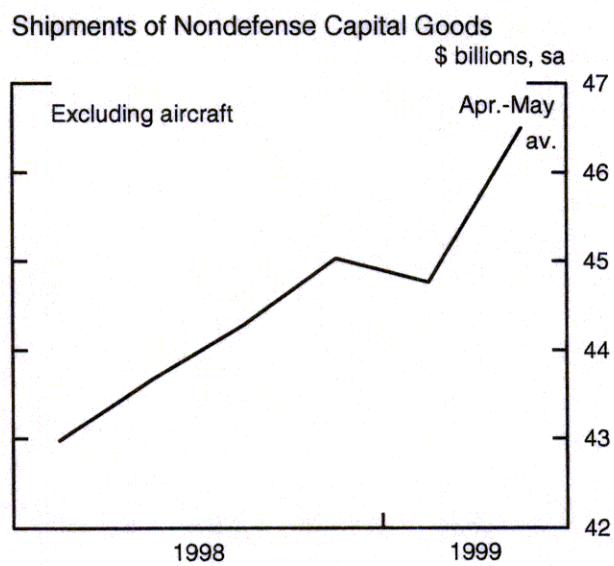
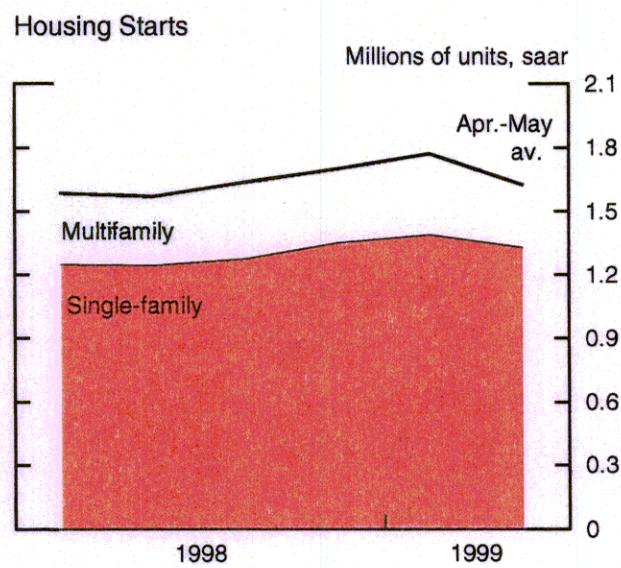
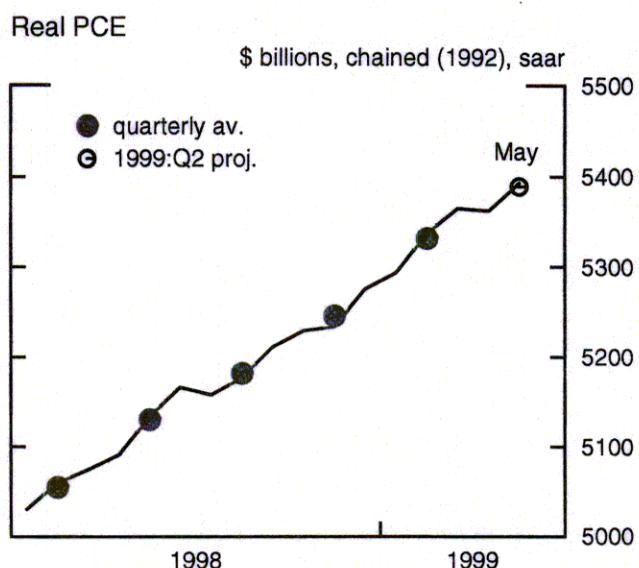
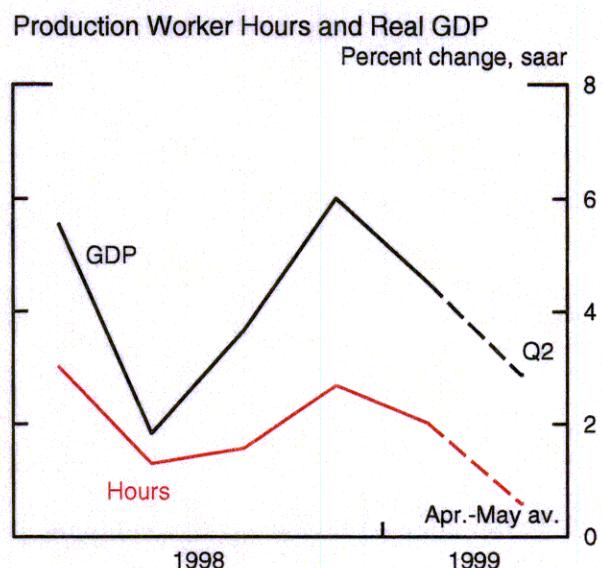
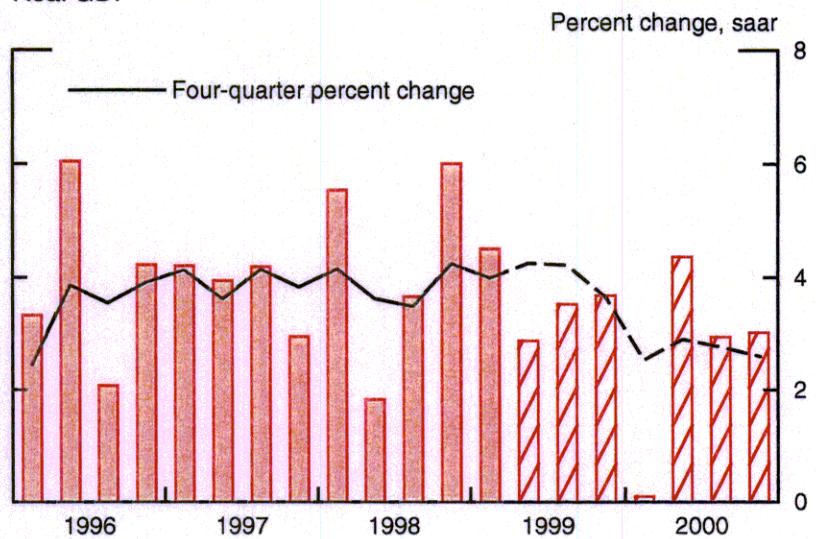


Chart 2
Forecast Summary

Real GDP

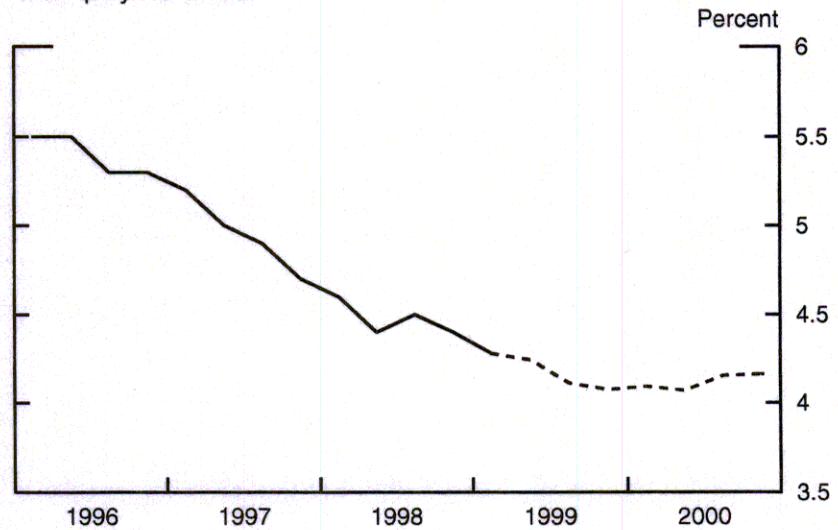


Real GDP
Percent change, Q4/Q4

"Actual" Ex. Y2K

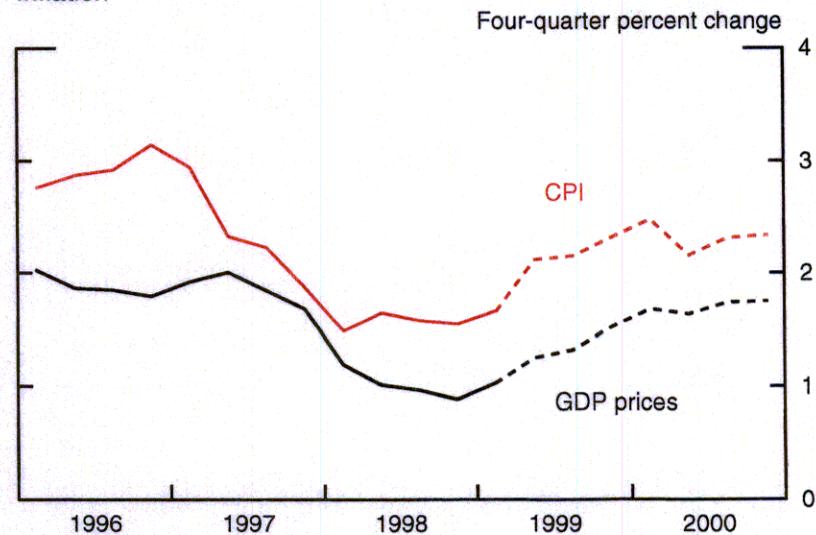
	"Actual"	Ex. Y2K
1996	3.9	3.9
1997	3.8	3.8
1998	4.3	4.2
1999	3.7	3.5
2000	2.6	2.8

Unemployment Rate



Unemployment Rate
Q4 average

Inflation



Inflation
Percent change, Q4/Q4

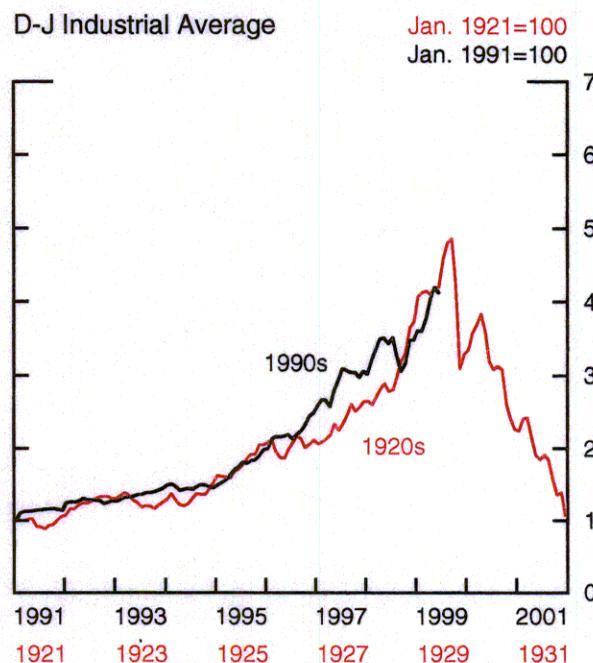
CPI GDP
Prices

	CPI	GDP Prices
1996	3.1	1.8
1997	1.9	1.7
1998	1.5	.9
1999	2.3	1.5
2000	2.3	1.7

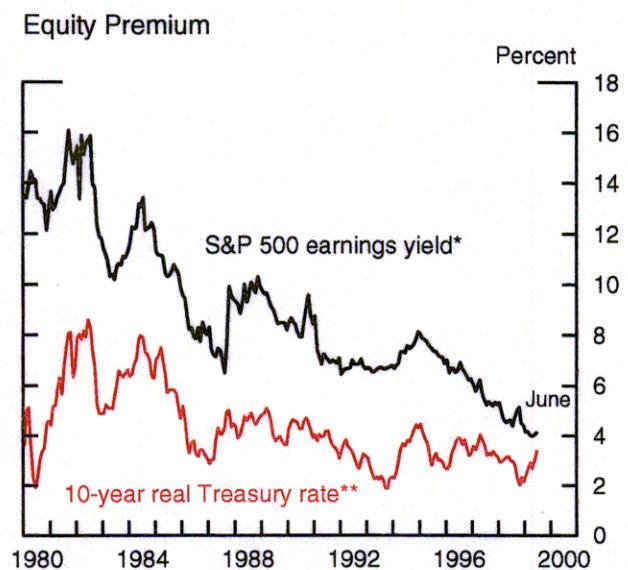
Chart 3

Stock Market

D-J Industrial Average



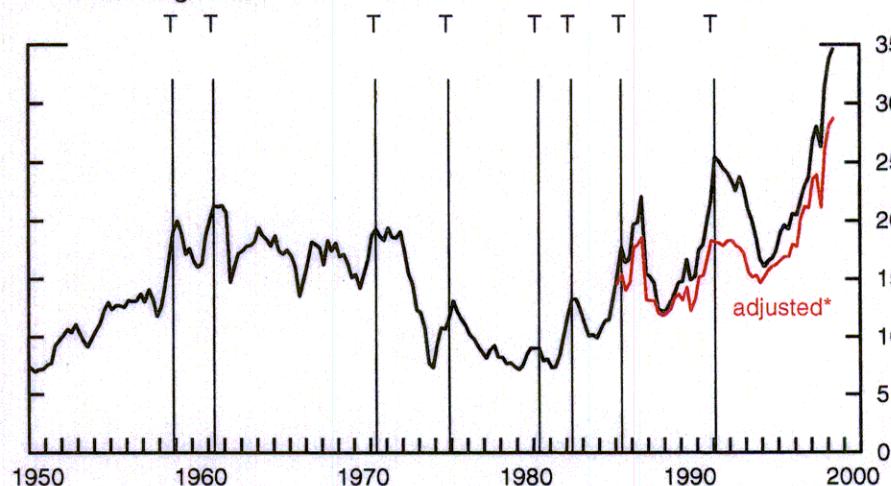
Equity Premium



* Based on the I/B/E/S consensus estimate of earnings over the coming twelve months.

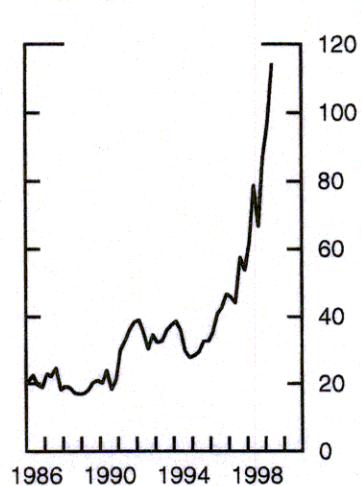
** Yield on the 10-year Treasury less the 10-year inflation expectations from the Philadelphia FRB Survey of Professional Forecasters.

Price-Earnings Ratio - S&P 500



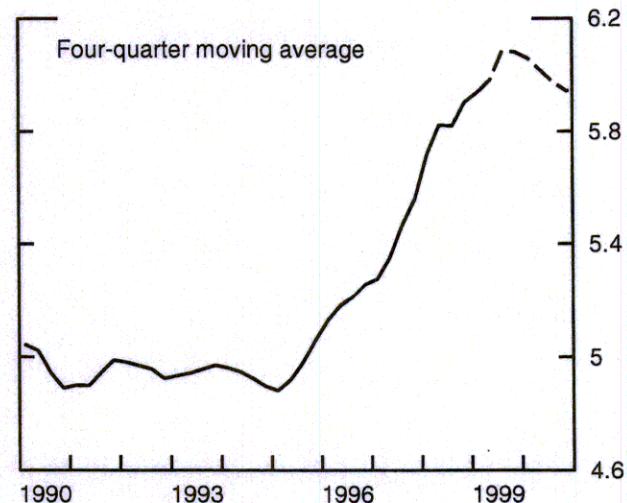
*Adjusted for special charges; provided by Goldman Sachs.

P-E Ratio - NASDAQ



T=Trough in earnings.

Wealth-to-income Ratio

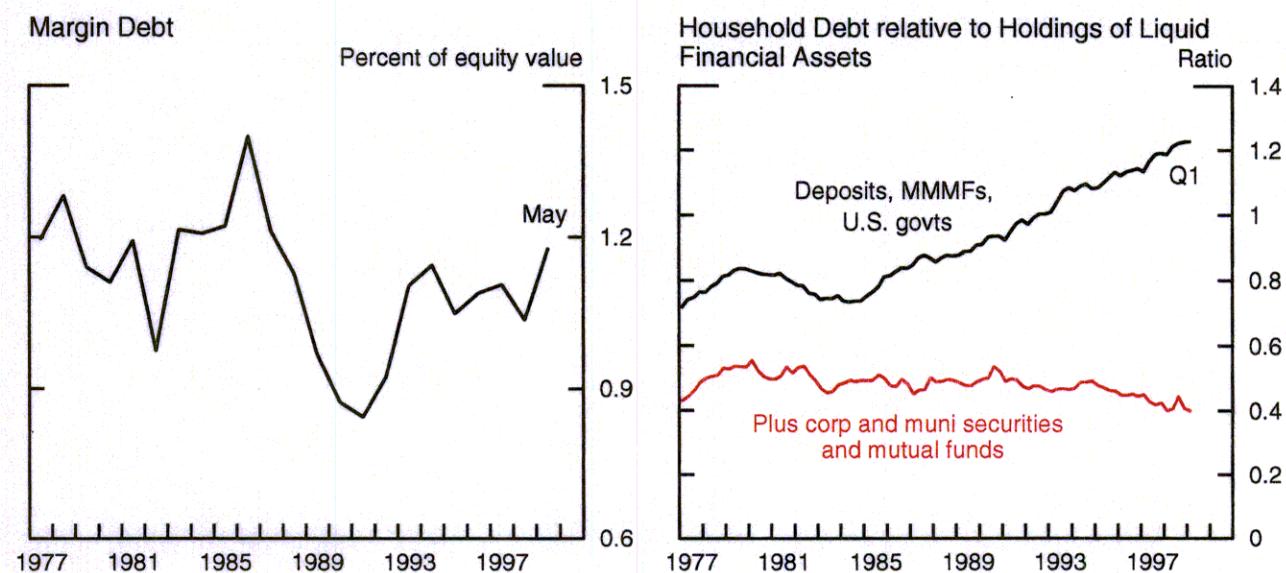


Size of Wealth Effect

	Wealth to income ratio	First year effect on PCE growth of 10% drop in stock market
1994:Q4	4.8	-.2%
1999:Q1	6.1	-.4%

Chart 4

Financial Fragility?



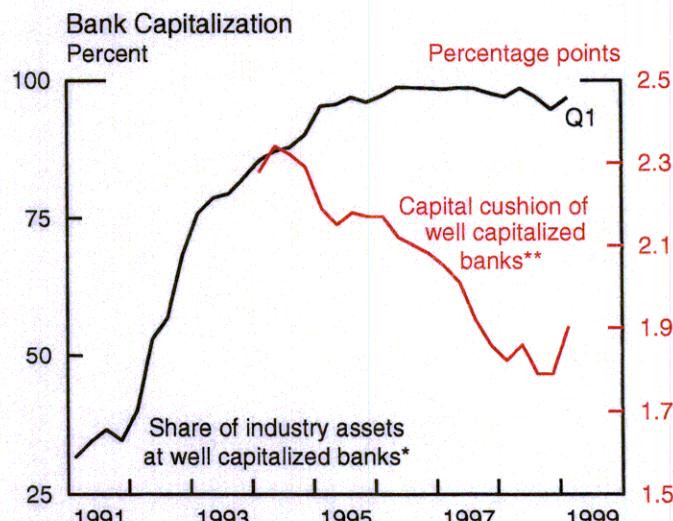
Distribution of Debt across Households (percent of total)

	Households without Stock	Households with Stock ≥ 50% of income	Households with Stock < 50% of income
1992	37.9	22.6	39.5
1995	34.9	27.7	37.4
1998	25.5	39.1	35.4

Debt-Service Payments as a Percent of Income (median ratios)

	Debtor Households without Stock	Debtor Households with Stock ≥ 50% of income	Debtor Households with Stock < 50% of income
1992	15.4	15.1	18.2
1995	15.5	15.6	17.8
1998	17.2	17.7	18.3

Source: Survey of Consumer Finances.



* Adjusted for examiner ratings.

** The average percentage point difference between the tightest capital ratio and the regulatory standard for being well capitalized at well-capitalized banks, weighted by assets.

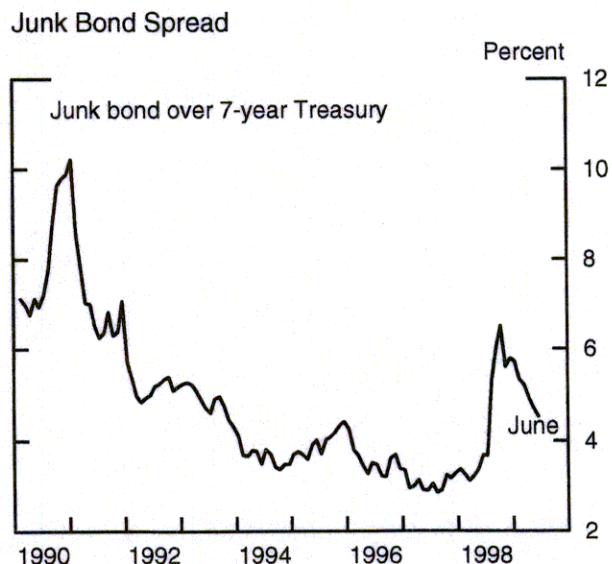


Chart 5

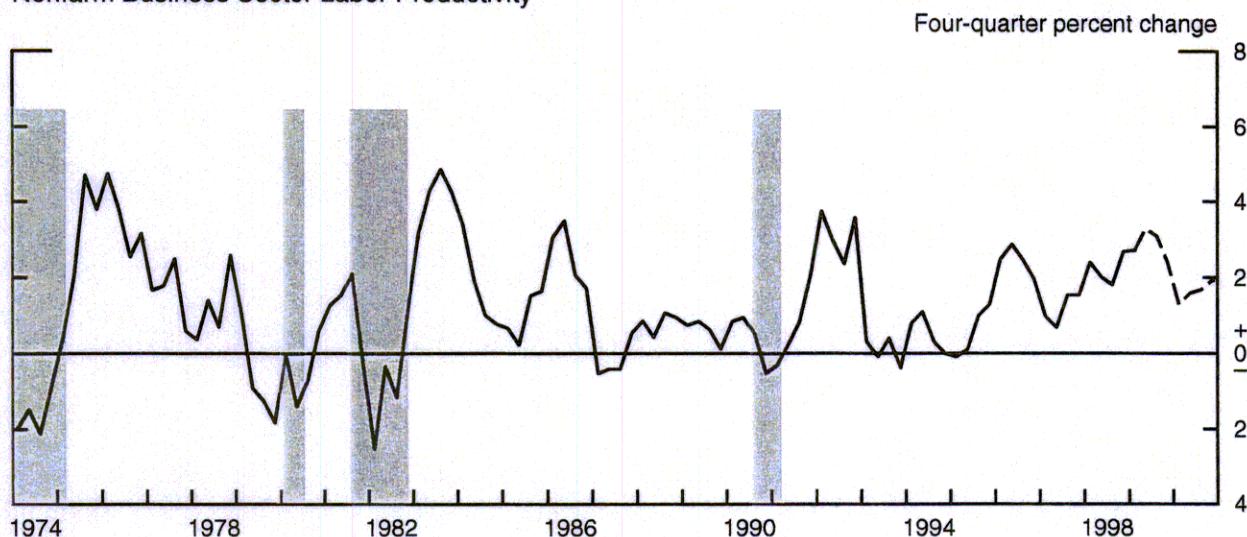
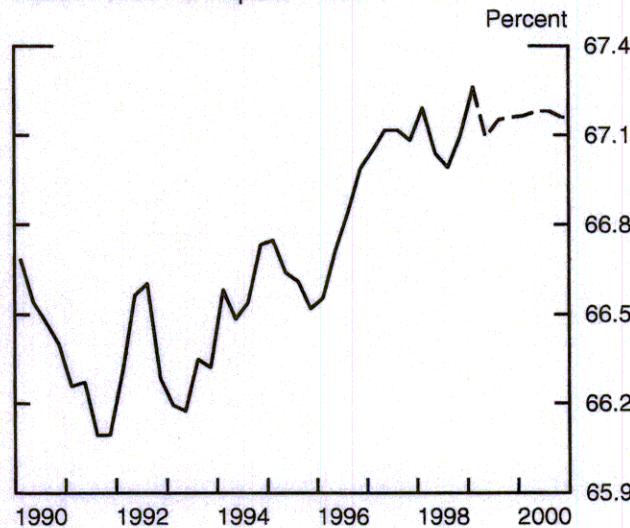
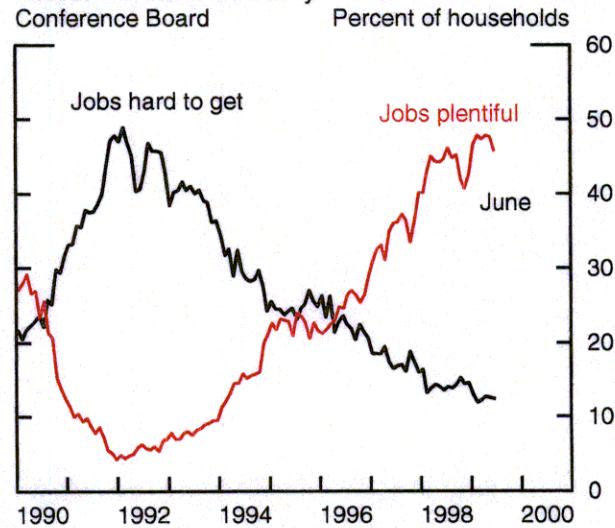
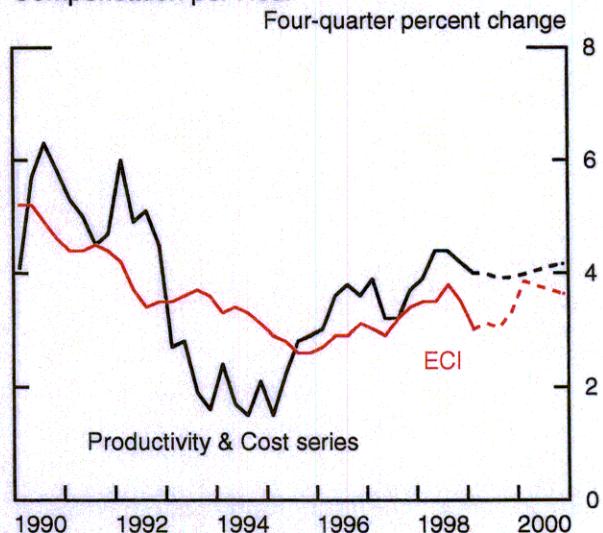
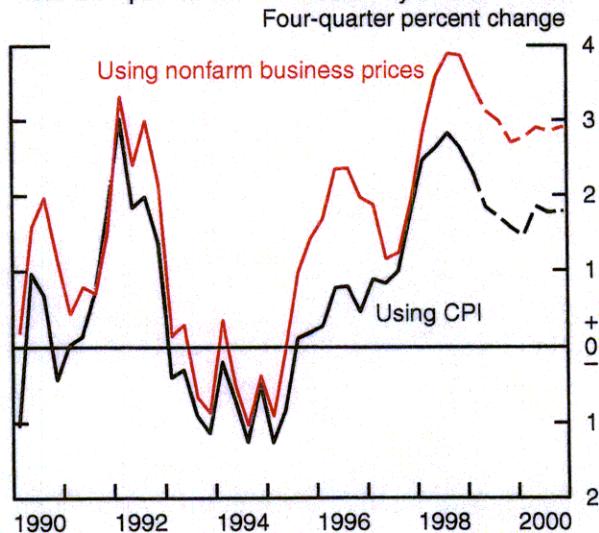
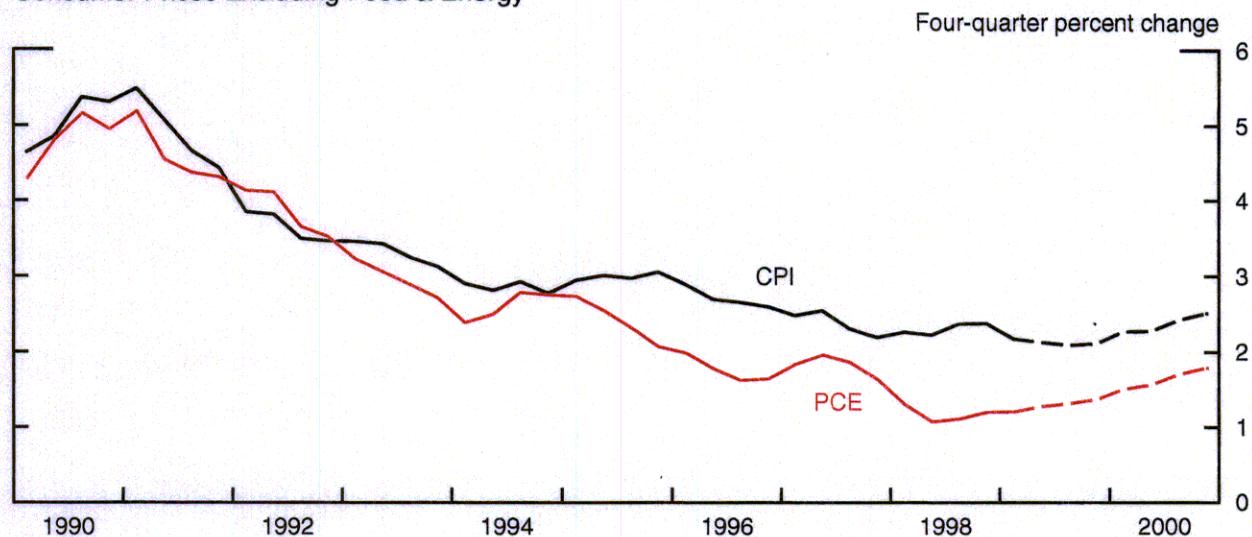
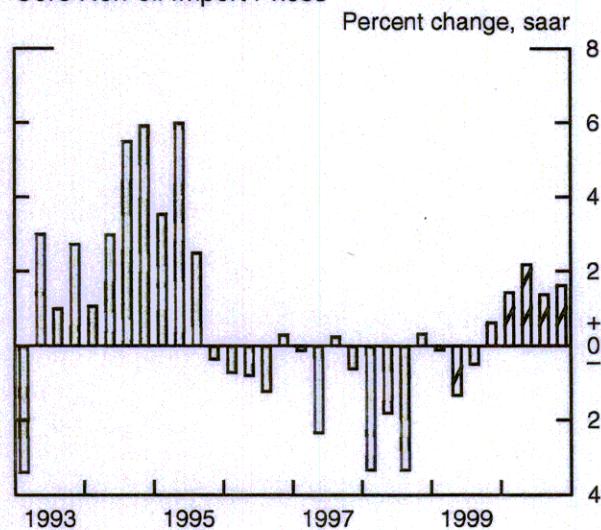
Labor Markets**Nonfarm Business Sector Labor Productivity****Labor Force Participation Rate****Perceived Job Availability****Compensation per Hour****Real Compensation – Productivity & Cost Series**

Chart 6
Prices

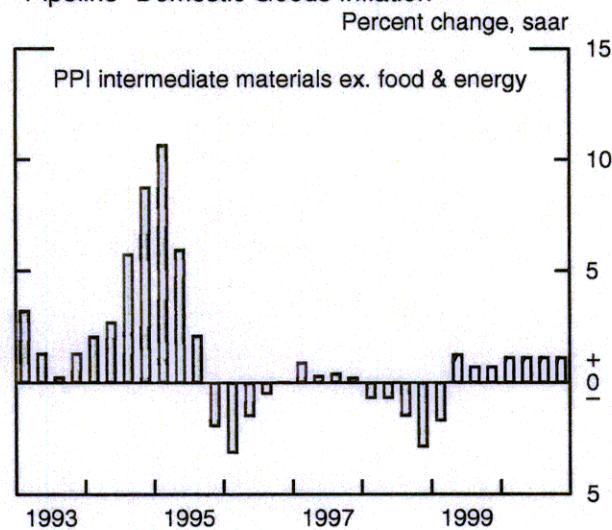
Consumer Prices Excluding Food & Energy



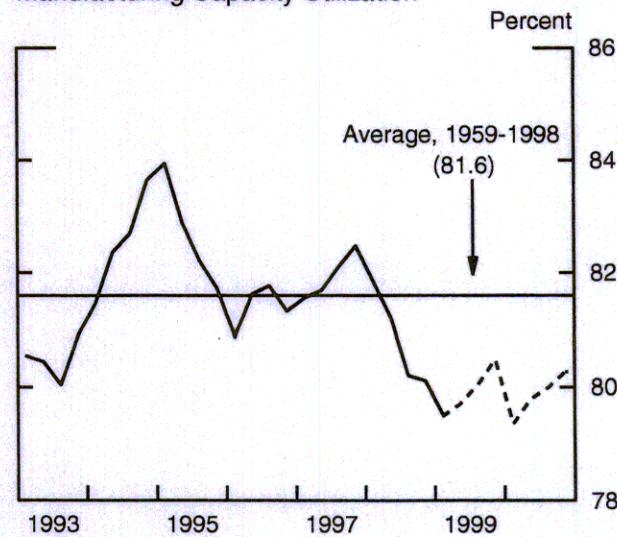
Core Non-oil Import Prices



"Pipeline" Domestic Goods Inflation



Manufacturing Capacity Utilization



Consumer Inflation Expectations

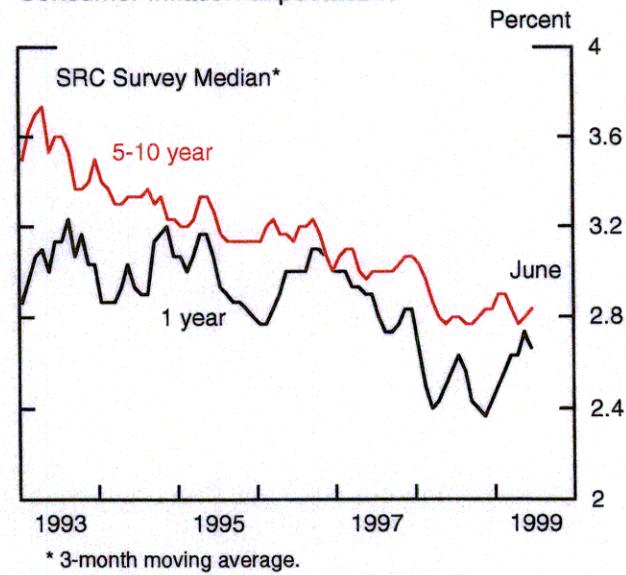
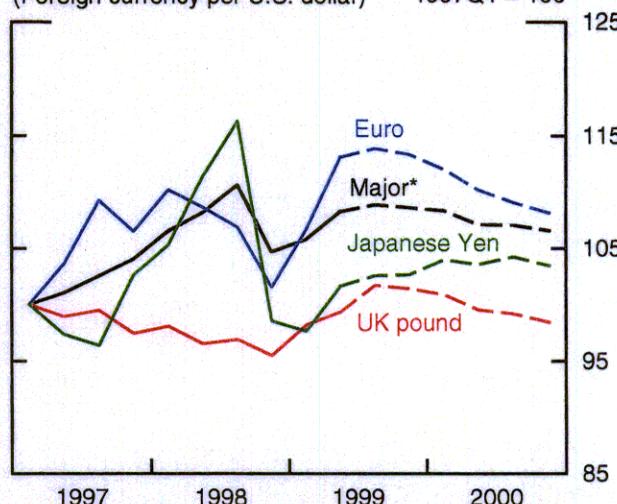


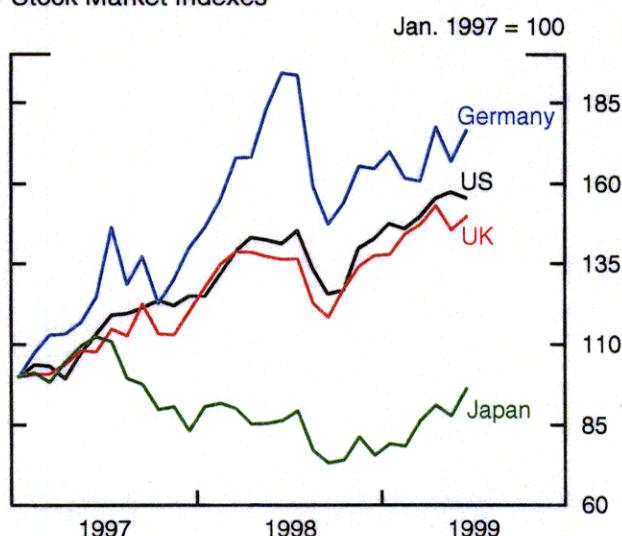
Chart 7
International Financial Markets

Real Exchange Rates
(Foreign currency per U.S. dollar) 1997Q1 = 100

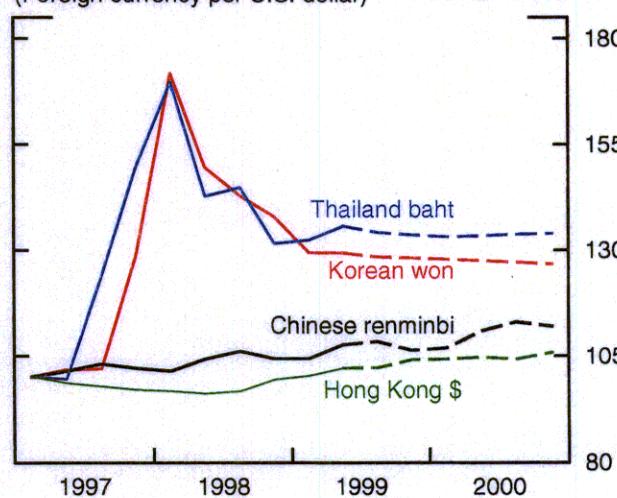


*Trade weighted value of dollar against major international currencies

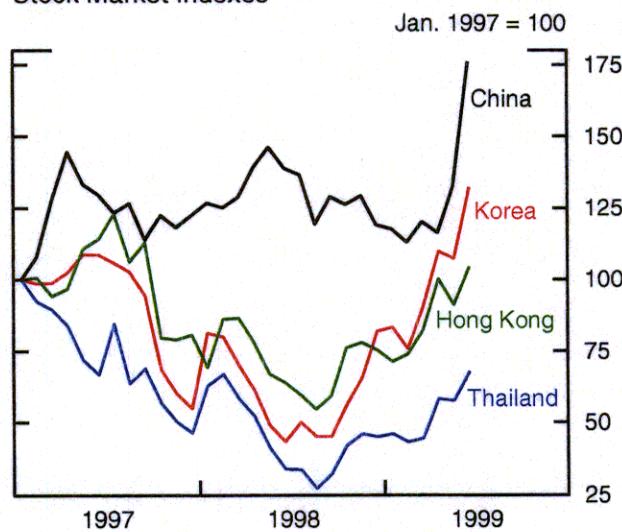
Stock Market Indexes



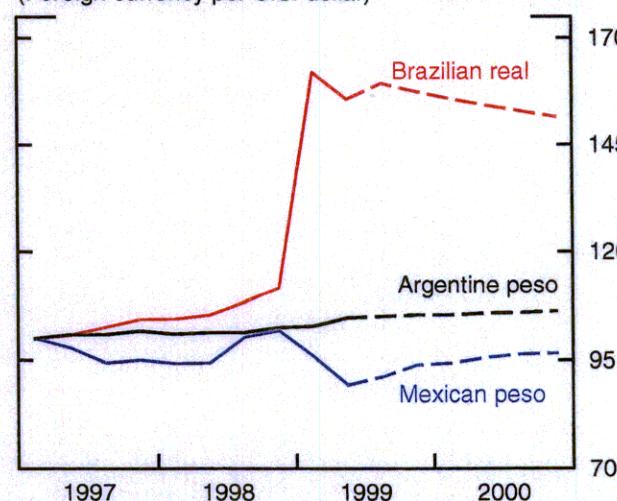
Real Exchange Rates
(Foreign currency per U.S. dollar) 1997Q1 = 100



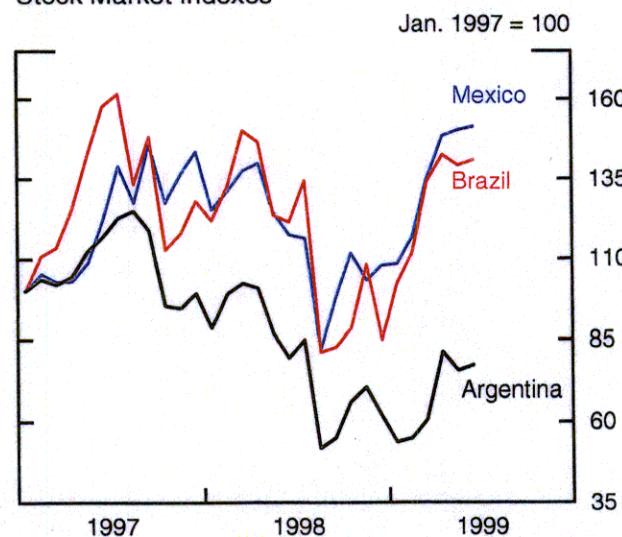
Stock Market Indexes



Real Exchange Rates
(Foreign currency per U.S. dollar) 1997Q1 = 100



Stock Market Indexes

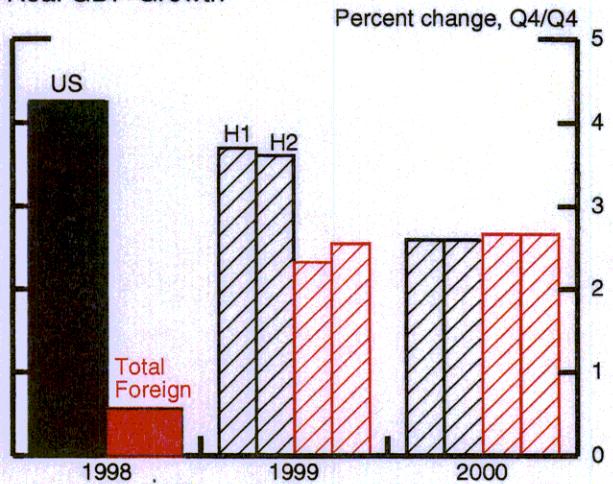


Note: Exchange rate data are quarterly; stock market data are monthly.

Chart 8

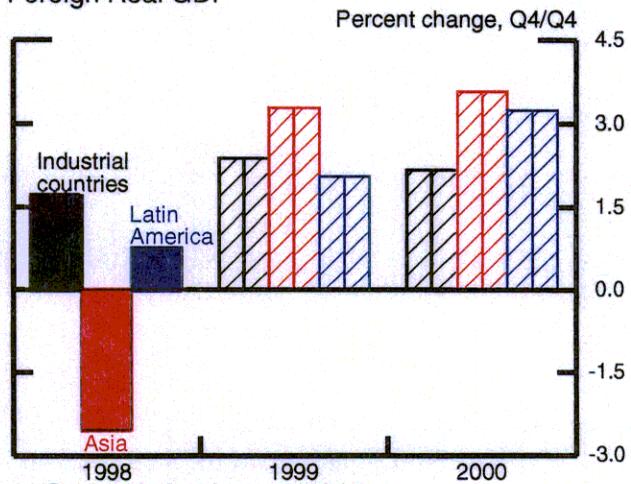
Foreign Outlook

Real GDP Growth



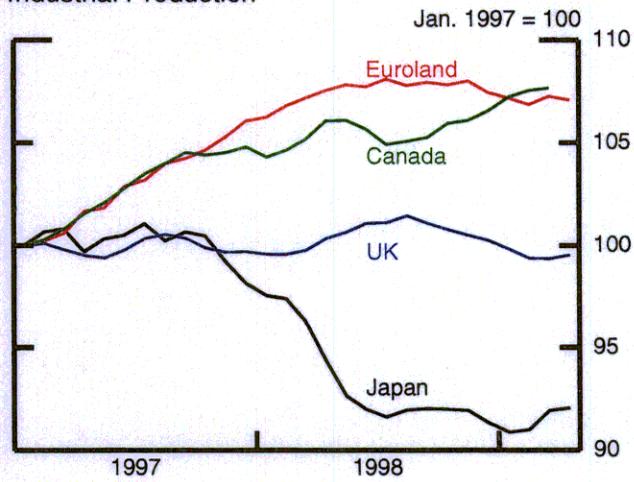
* Years are Q4/Q4; half years are Q2/Q4 and Q4/Q2.

Foreign Real GDP*

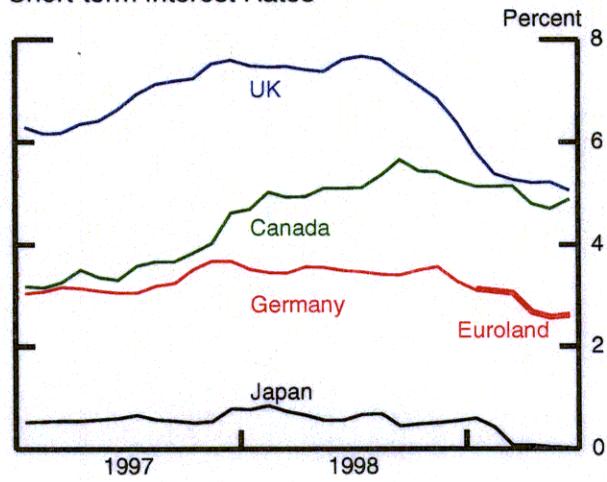


* US nonagricultural export weights.

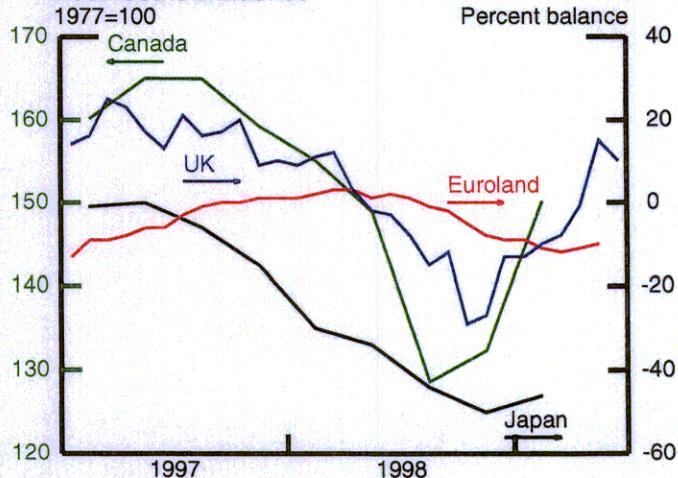
Industrial Production



Short-term Interest Rates



Business Confidence



Foreign Growth Percent, saar

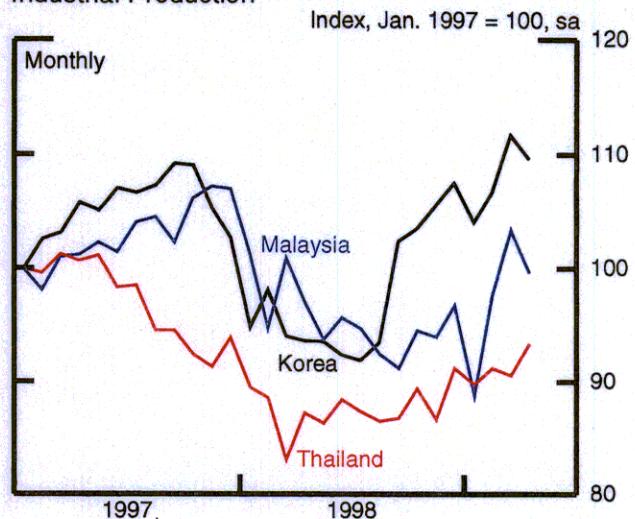
	1998	1999	2000
	H1	H2	
Industrial Countries	1.7	2.6	2.1
Japan	-3.0	2.1	-1.7
Euroland	2.1	1.7	2.5
UK	1.1	0.7	2.4
Canada	2.8	3.6	3.1
			2.7

* Years are Q4/Q4; half years are Q2/Q4 and Q4/Q2.

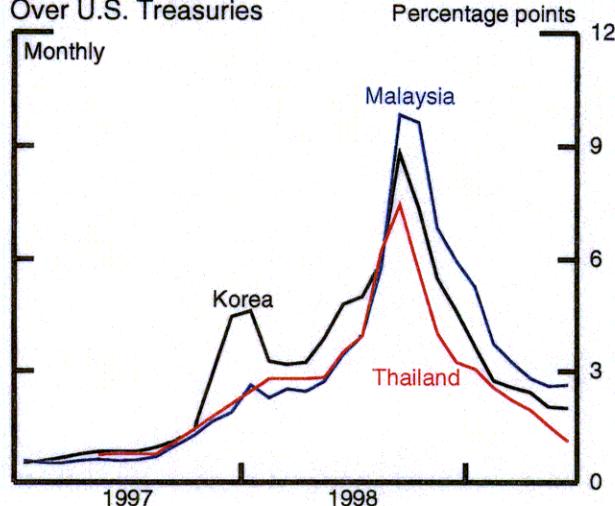
Chart 9

Developing Asia

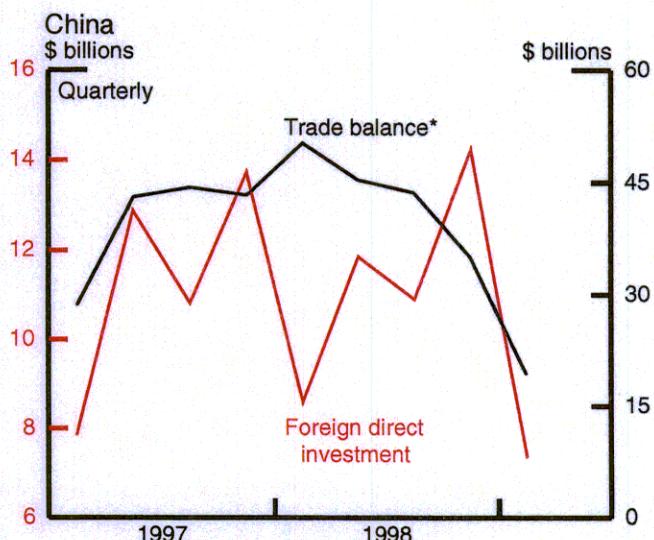
Industrial Production



Dollar Bond Spread Over U.S. Treasuries

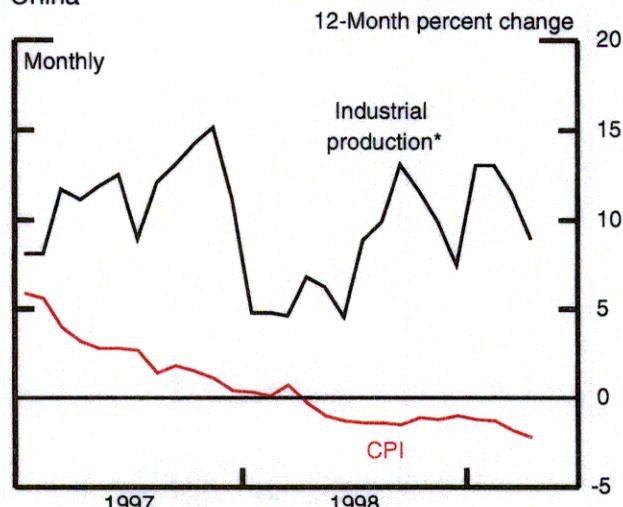


China



* Seasonally adjusted by FRB staff.

China



* Adjusted for Chinese New Year.

Risks

Loss of momentum in the reform process

Banking problems continue, NPLs high

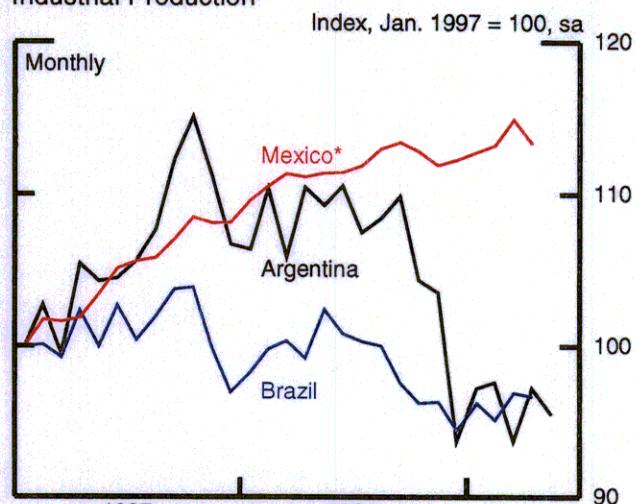
Weakness/deflation in China

Real GDP Growth* Percent, saar

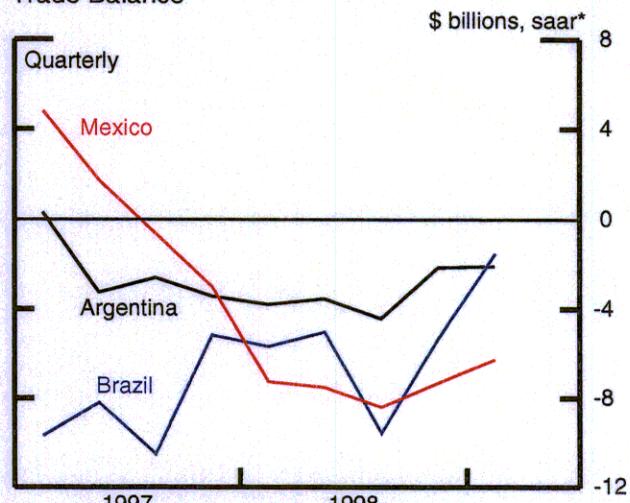
	1998		1999		2000
	H1	H2	H1	H2	
Developing Asia of which:	-2.5		3.2	3.4	3.6
China	9.5		3.9	6.0	6.0
Korea	-5.3		7.1	4.9	4.6
Malaysia	-8.1		0.1	2.9	2.9
Thailand	-7.0		-0.2	2.8	2.3

* Years are Q4/Q4; half years are Q2/Q4 and Q4/Q2.

Chart 10

Latin America**Industrial Production**

* Seasonally adjusted by FRB staff.

Trade Balance

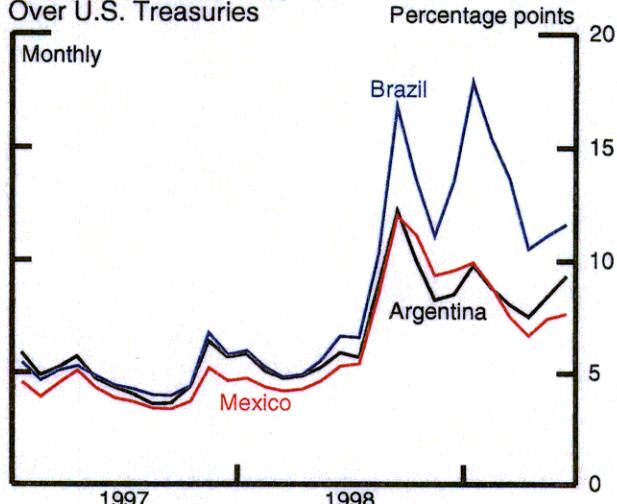
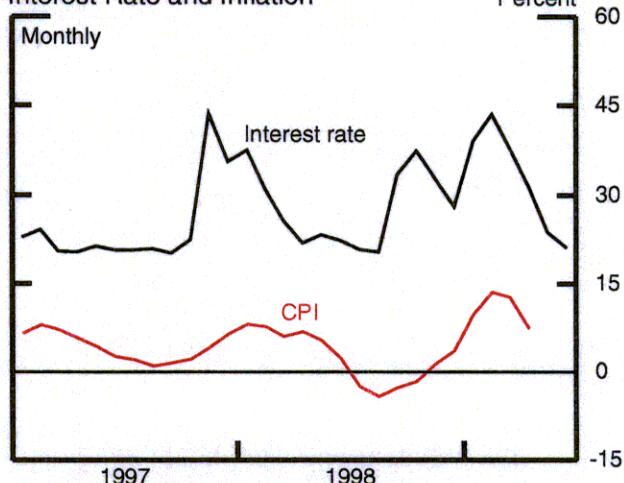
* Seasonally adjusted by FRB staff.

Risks

Continued fiscal problems in Brazil

Loss of investor confidence in Argentina

Election uncertainties

Brady Bond Stripped Spread Over U.S. Treasuries**Brazilian 1-Month Domestic Interest Rate and Inflation***

* Inflation is a 3-month centered moving average of consumer price inflation at an annual rate.

Real GDP Growth*

Percent, saar

	1998	1999	2000
	H1	H2	
Latin America	0.8	0.8	3.4
of which:			3.2
Argentina	-0.5	-4.6	-0.1
			4.0
Brazil	-1.9	0.5	2.1
			2.5
Mexico	2.9	2.0	4.4
			3.6

* Years are Q4/Q4; half years are Q2/Q4 and Q4/Q2.

Chart 11

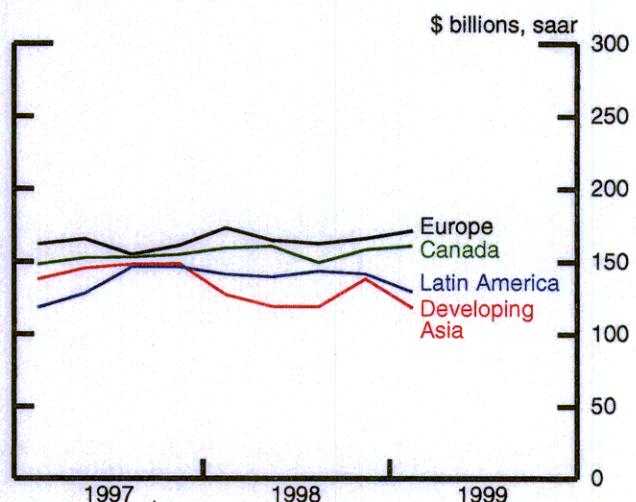
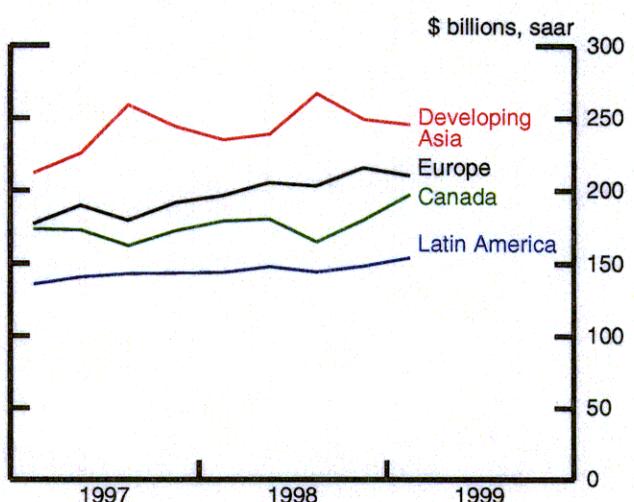
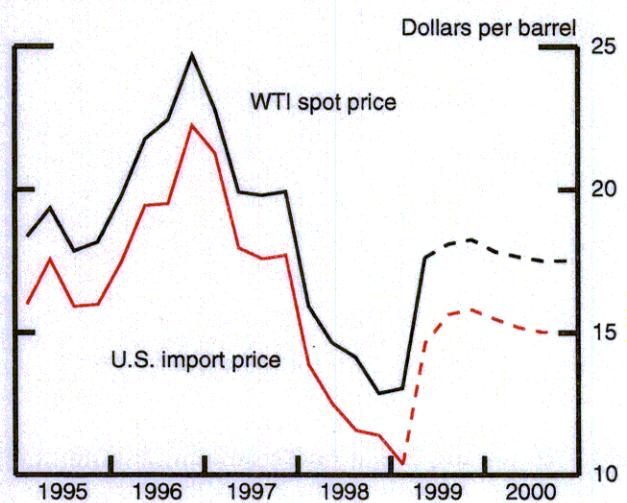
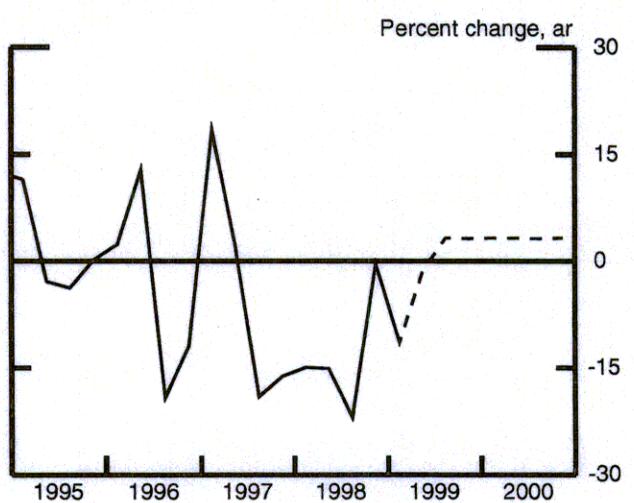
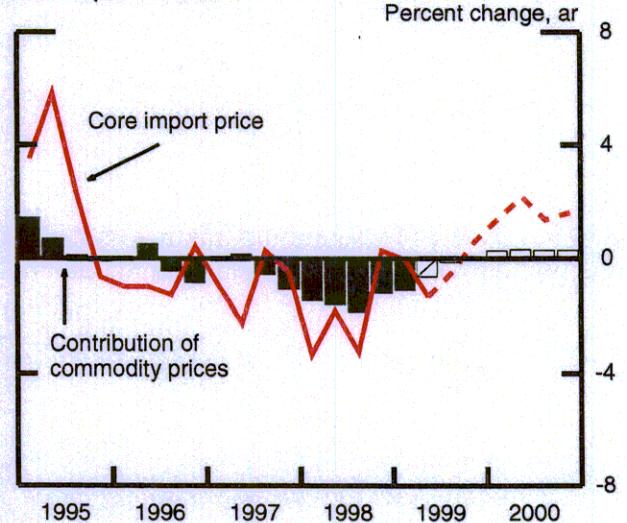
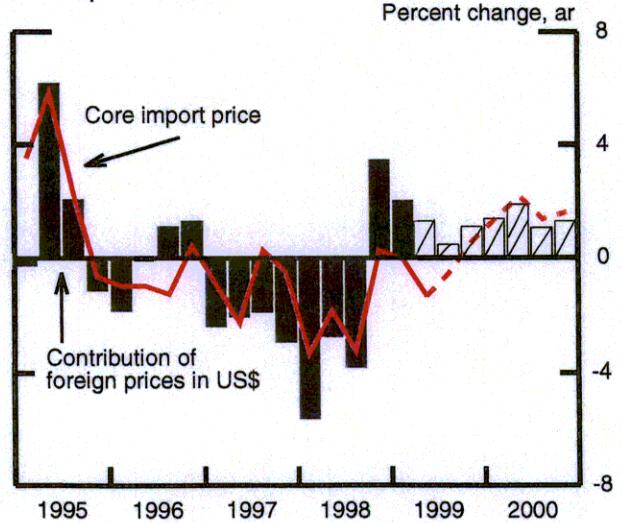
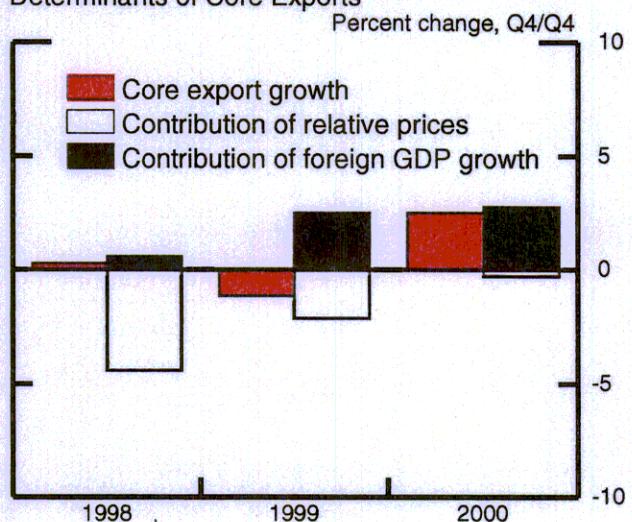
U.S. Trade**Exports by Region****Imports by Region****Oil Prices****Non-oil Commodity Prices****Core Import Prices****Core Import Prices**

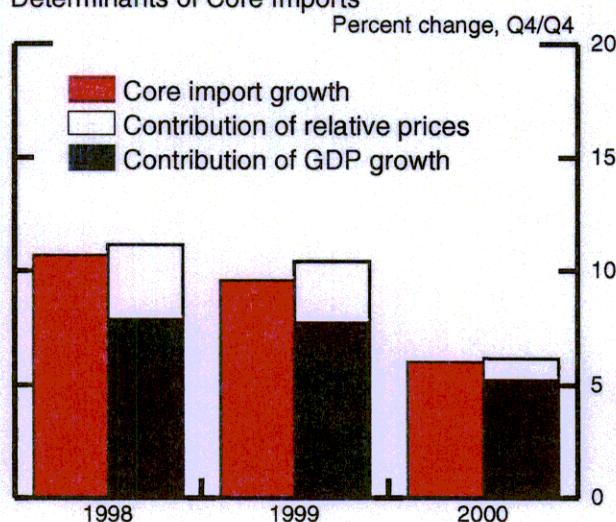
Chart 12

U.S. External Balance

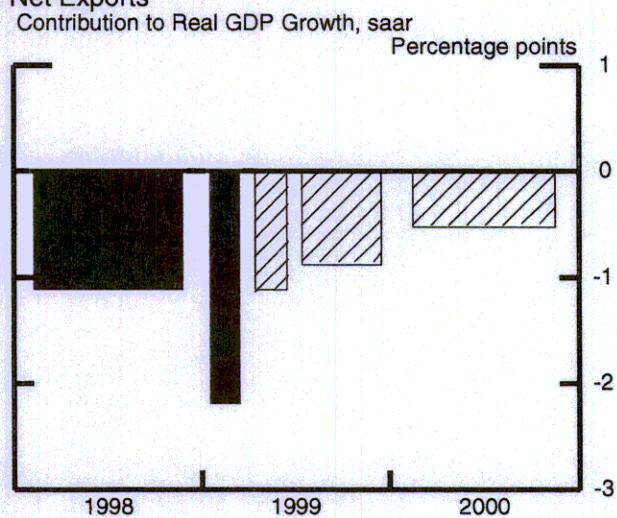
Determinants of Core Exports



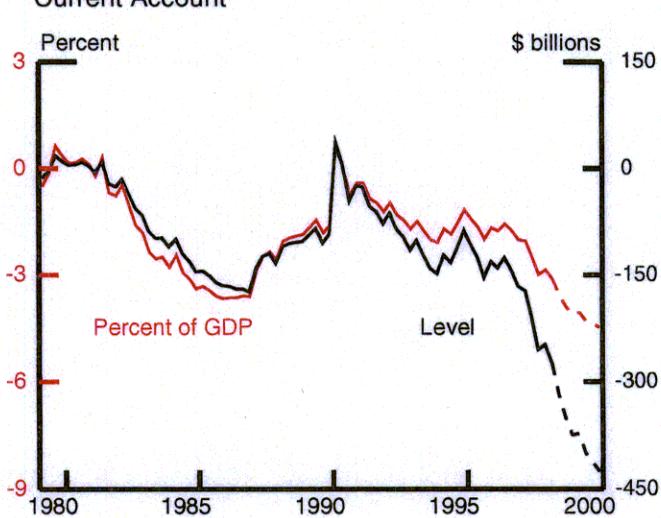
Determinants of Core Imports



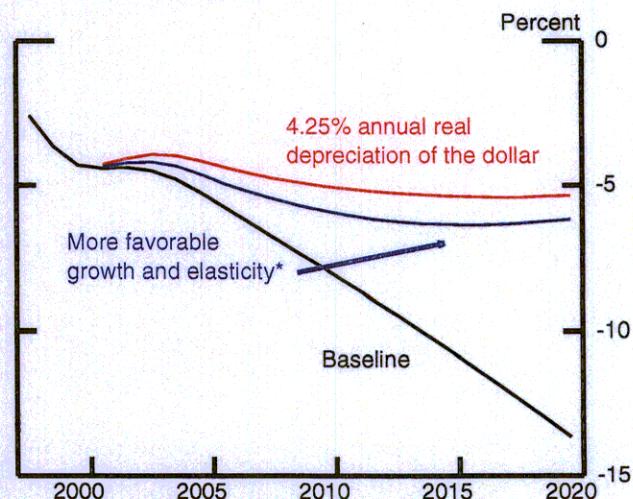
Net Exports



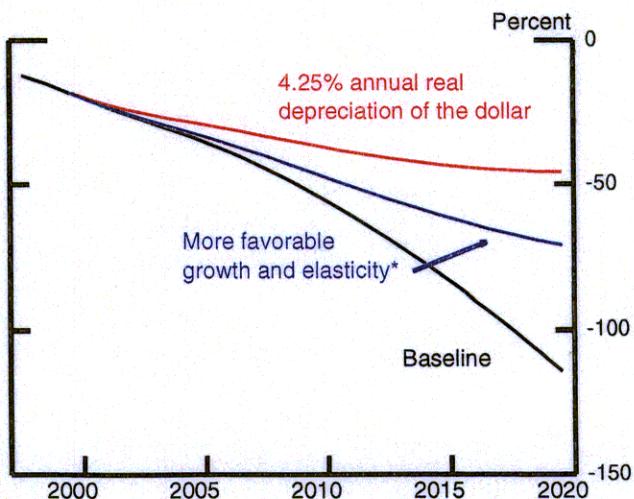
Current Account



U.S. Current Account to GDP Ratio



U.S. Net Investment Position to GDP Ratio



* Foreign industrial GDP grows by an additional one percentage point per year and the U.S. import elasticity declines to 1.5 by 2015.

Chart 13

PROJECTIONS FOR 1999

	FOMC				
	--Range-- with Y2K	Central Tendency with Y2K	ex Y2K	--Staff-- with Y2K	--Administration--
-----Percentage change, Q4 to Q4-----					
Nominal GDP February 1999	4¾ to 5½ (3¾ to 5)	5 to 5½ (4 to 4½)	4¾ to 5½ (4 to 4½)	5.2 (4.1)	4.8 (4.0)
Real GDP February 1999	3¼ to 4 (2 to 3½)	3½ to 3¾ (2½ to 3)	3½ to 3¾ (2½ to 3)	3.7 (2.6)	3.2 (2.0)
CPI February 1999	1¾ to 2½ (1½ to 2½)	2¼ to 2½ (2 to 2½)	2¼ to 2½ (2 to 2½)	2.3 (2.3)	2.4 (2.3)
-----Average level, Q4, percent-----					
Unemployment rate February 1999	4 to 4½ (4¼ to 4¾)	4 to 4¼ (4¼ to 4½)	4 to 4¼ (4¼ to 4½)	4.1 (4.3)	4.3 (4.9)

PROJECTIONS FOR 2000

	FOMC				
	--Range-- with Y2K	Central Tendency with Y2K	ex Y2K	--Staff-- with Y2K	--Administration--
-----Percentage change, Q4 to Q4-----					
Nominal GDP	3¾ to 5¼	4 to 5	4¼ to 5	4.4	4.2
Real GDP	2 to 3½	2½ to 3	2½ to 3½	2.6	2.1
CPI	1½ to 2¾	2 to 2½	2 to 2½	2.3	2.4
-----Average level, Q4, percent-----					
Unemployment rate	4 to 4½	4¼ to 4½	4¼ to 4½	4.2	4.7

APPENDIX 3

Material used by Mr. Madigan in his presentation

Material for

***Staff Presentation on
Money and Debt Ranges***

June 28-29, 1999

Chart 1
Ranges for Money and Debt Aggregates

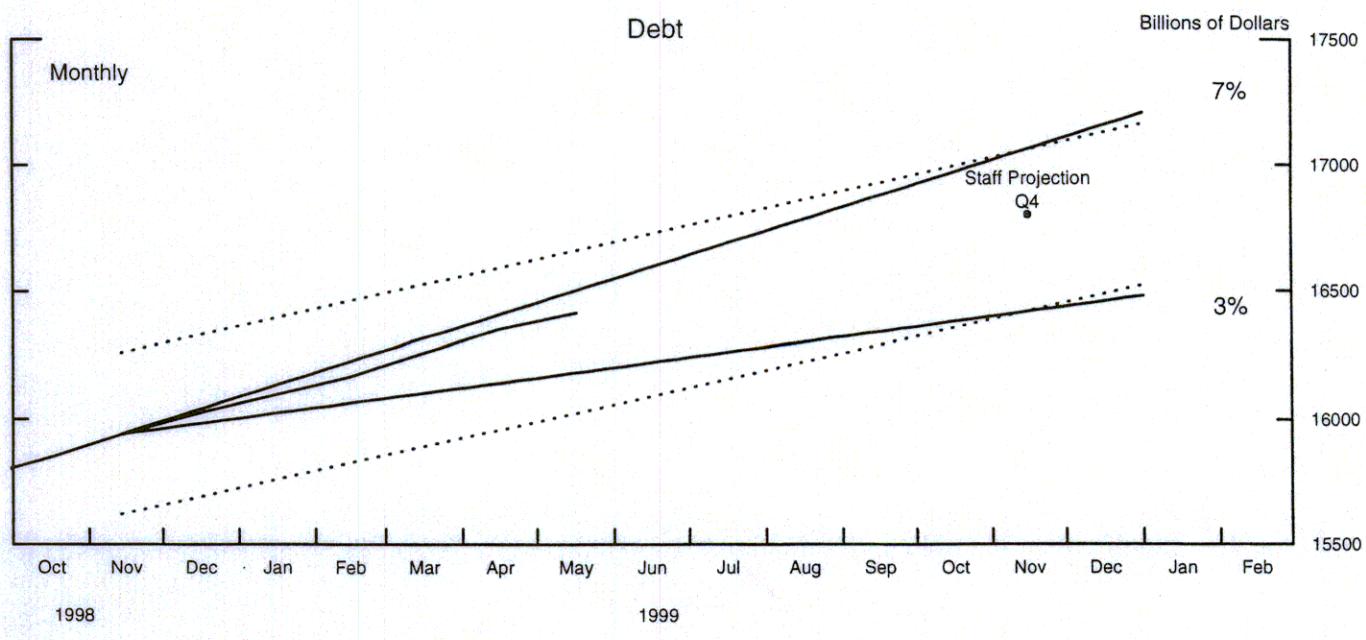
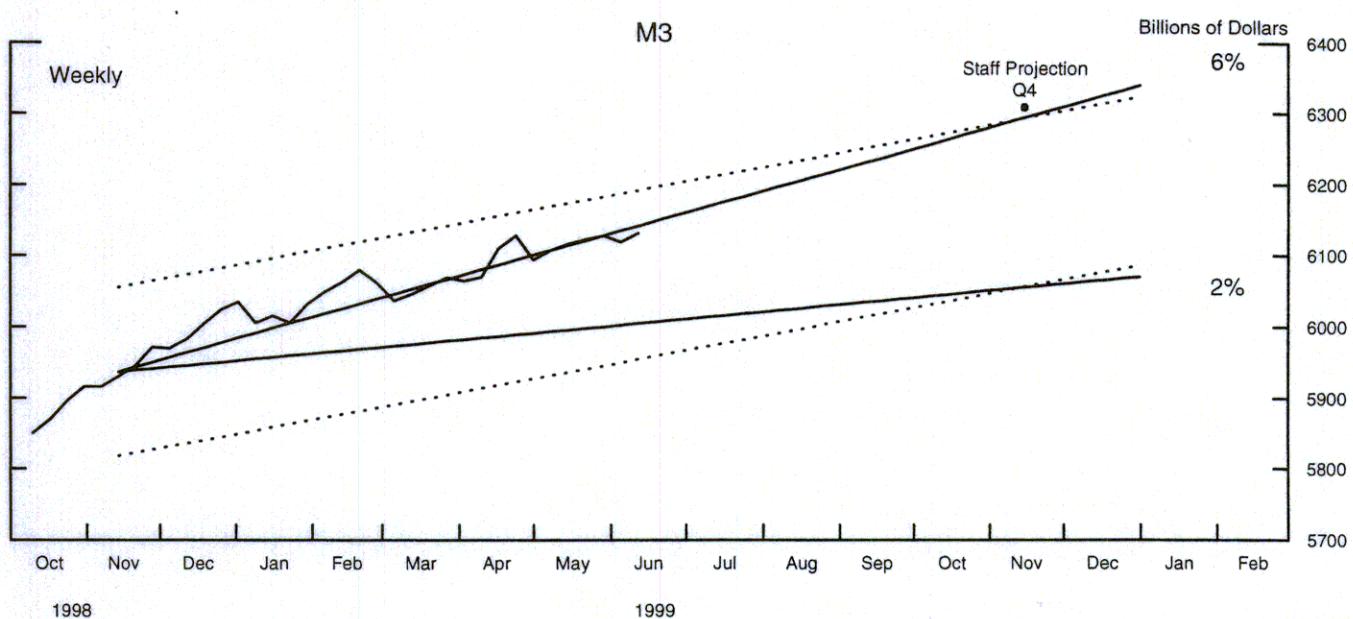
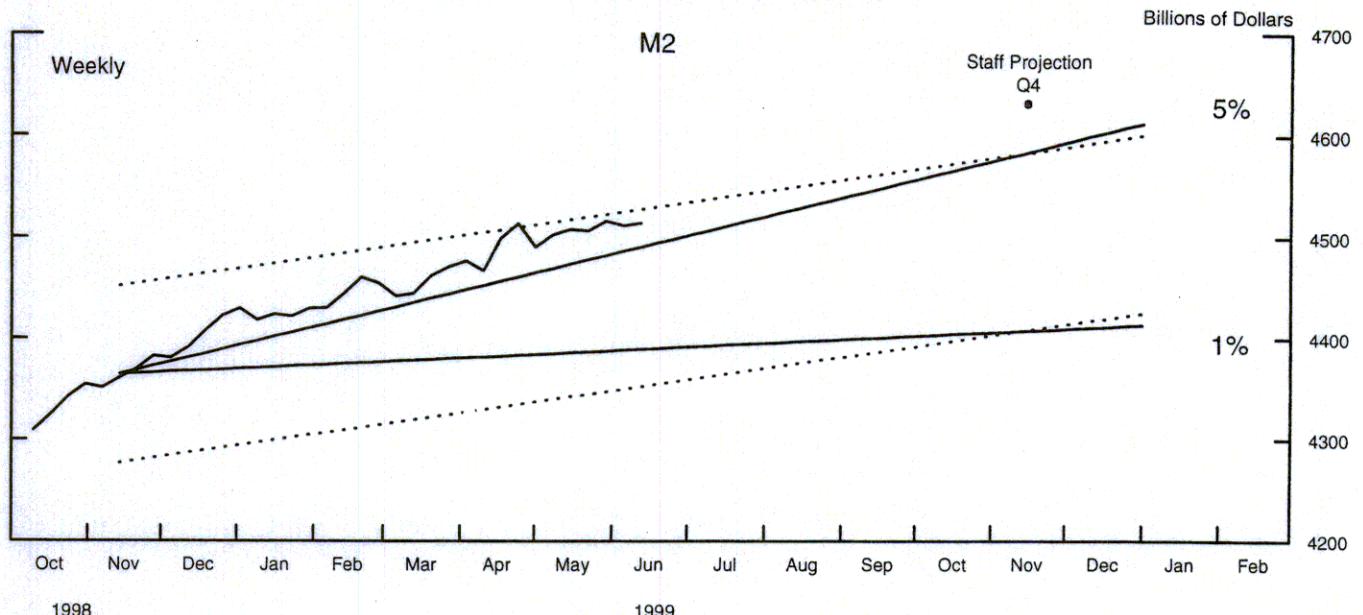


Chart 2
M2 Velocity and Opportunity Cost

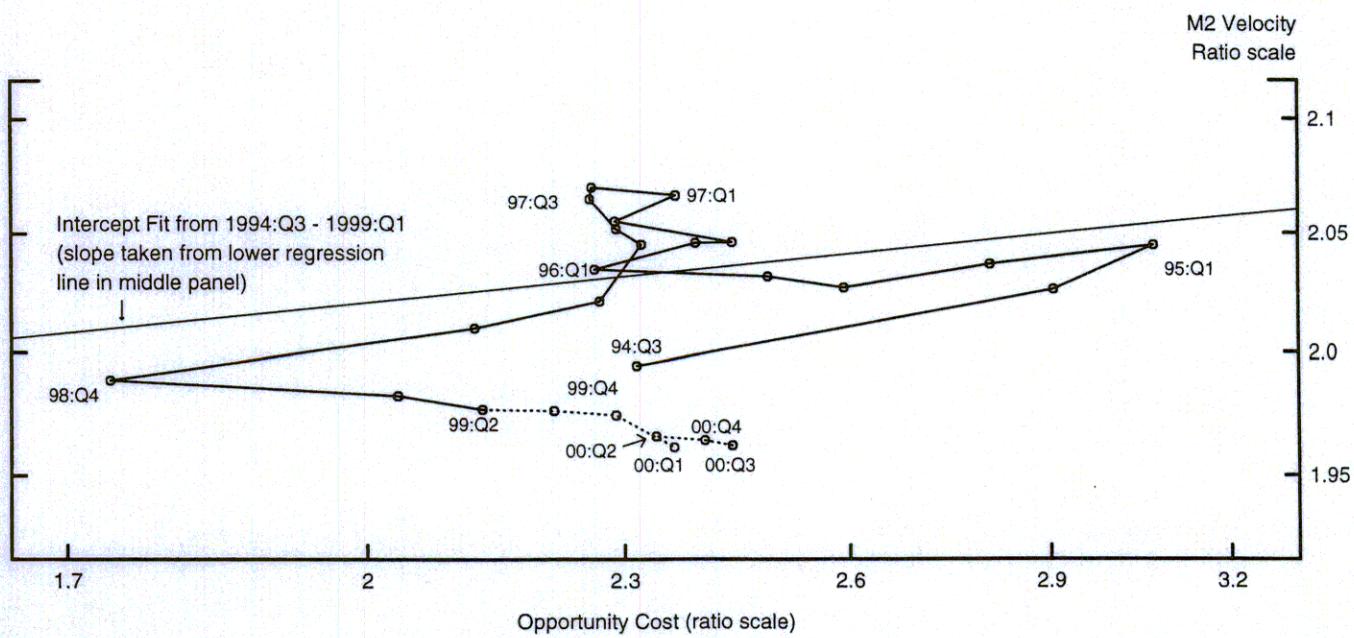
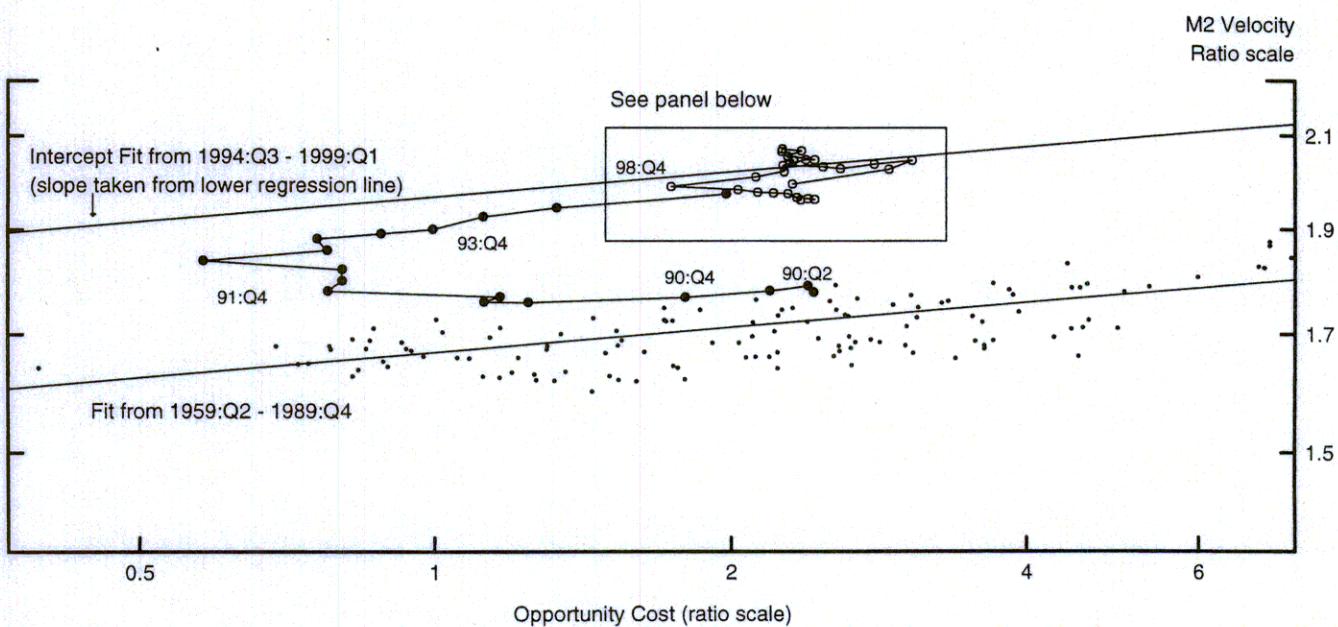
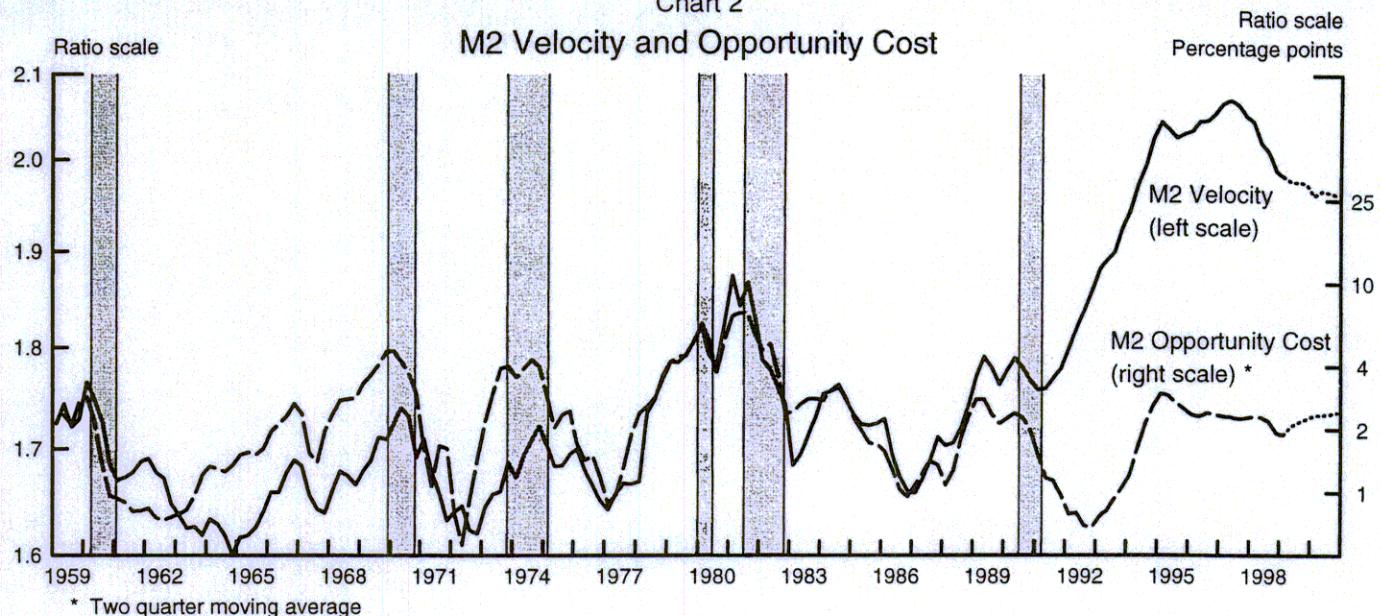
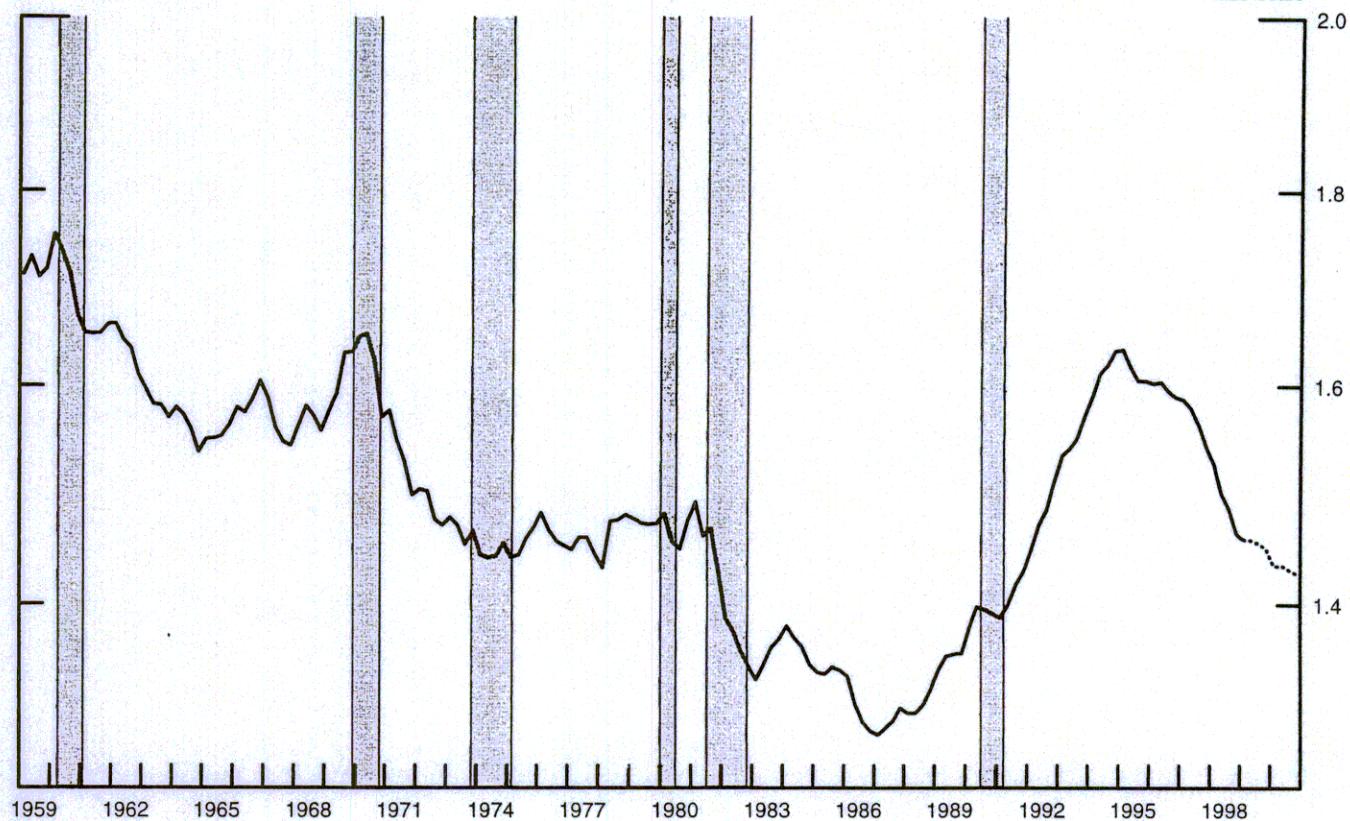


Chart 3

M3 Velocity

Ratio scale



Domestic Non-Financial Debt Velocity

Ratio scale

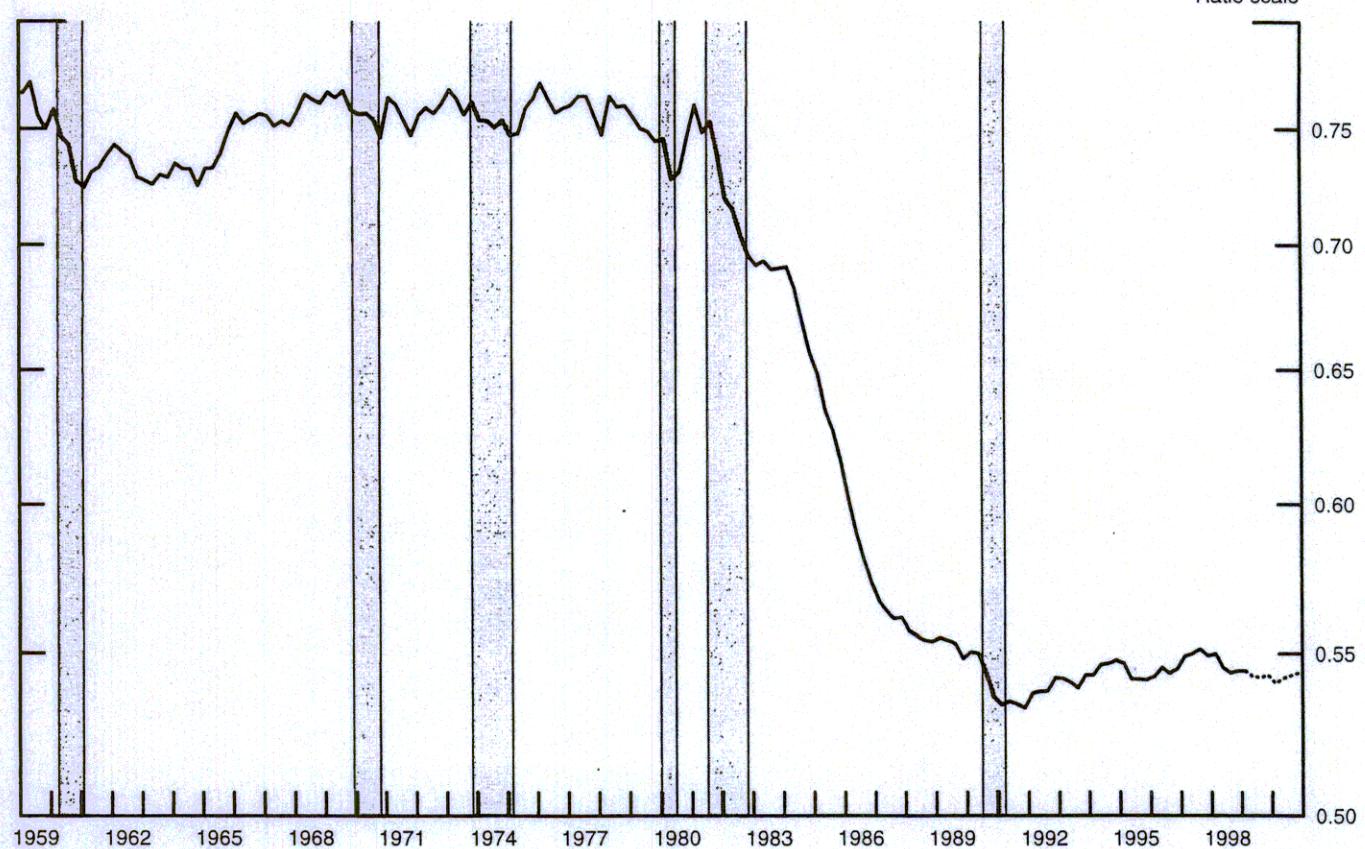


Table 1
Staff Projections of Money and Debt Growth
(percent)

	1998 (Actual)	1998:Q4-1999:Q2 (Est./Proj.)	1999 (Projected)	2000 (Projected)
M2	8.5	6.5	6	5
M3	10.9	6.1	6-1/4	6
Debt	6.1	6.0	5-1/2	4-1/4
Memo:				
Nominal GDP	5.2	5.4	5-1/4	4-1/2

Table 2
Staff Projections and Alternative Money and Debt Ranges
(Q4 to Q4, percent)

	Staff Projections		Alternative I		Alternative II	
	1999	2000	1999 (current)	2000	1999	2000
M2	6	5	1 to 5	1 to 5	2 to 6	2 to 6
M3	6-1/4	6	2 to 6	2 to 6	3 to 7	3 to 7
Debt	5-1/2	4-1/4	3 to 7	2 to 6	3 to 7	2 to 6